

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>150.000</u>	<u>100.000</u>	<u>5.000</u>
Cubic Feet Impacted		<u>6250.000</u>
Barrels		<u>1113.09</u>
Soil Type		Clay
Bbls Assuming 100% Saturation		<u>111.31</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		111.40000

Instructions
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

Measurements	
Length (ft)	150
Width (ft)	100
Depth (in)	5.000







May 16, 2024



NMOCD REPORT DETAILS

Submission Contact, Application, Fee and Payment Details

Name:	Kathy Purvis
Email:	katherine.purvis@spurenergy.com
Phone:	(575) 441-8619

Initial Release C-141

Application Details

Incident ID:	nAB1919234395		
District:	Artesia		
County:	Eddy		
Legal Description:	Unit: J	Section: 17	Township: 17S Range: 29E
Lat/Long:	N: 32.83371°		E: -104.09593°

Prerequisites

Incident Operator:	Spur Energy Partners LLP
Release Type:	Crude Oil
Incident Status:	Pending Submission of Closure Report

Release Information

Site Name:	Folk State 11 Battery	
Date Discovered:	6/12/2019	(MM/DD/YYYY)
Surface Owner:	State	

Incident Details

Incident Type:	Oil Release
Fire:	No
Injuries:	No
Watercourse:	No
Public Health:	No
Significant to Property or Environment:	No
Detrimental to Freshwater:	No

Nature and Volume of Release

Released Product:	Crude Oil
Cause:	Equipment Failure
Source:	Flow Line - Production
Release:	112 (bbls/Mcf)
Recovered:	80 (bbls/Mcf)
Additional Details:	Crude Oil

Nature and Volume of Release

Is this a gas submission?	No
Was this a major release (Y/N) >25bbls?	Yes
Justification of release volume calculation:	No (Attached Release Volume Calculation)


Initial Response

Release has been stopped?	Yes
Release area has been secured?	Yes
Released material has been contained?	Yes
All free liquids have been recovered?	Yes
If actions have not been completed, why?	Yes (Attached Explanation)

Remediation Action Plan C-141

Site Characterization

Depth to groundwater beneath effected area?	75ft - 100ft
What method was used to determine depth?	Attached Document
Did release impact GW or Surface Water?	No
Continuously flowing watercourse?	greater than 5 (mi.)
Lakebed, sinkhole, or playa (measured from the high-water mark)?	between 1 to 5 (mi.)
An occupied permanent residence?	greater than 5 (mi.)
Spring or private domestic well?	between 1 to 5 (mi.)
Incorporated municipal boundaries?	greater than 5 (mi.)
Wetland?	between 1 to 5 (mi.)
Subsurface mine?	greater than 5 (mi.)
A (non-karst) unstable area?	greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology?	Medium
A 100-year floodplain?	between 1 to 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site?	No

May 16, 2024			
Remediation Plan			
Have lateral and vertical extents of impacts been delineated, to the strictest standards?	Yes		
Was the release entirely contained within a lined containment?	Yes		
Soil Contamination Sampling. (provide the highest observed value for each)(0.1)	Chloride	1,940 (mg/kg)	
	Total TPH	4,840 (mg/kg)	
	GRO+DRO	4,840 (mg/kg)	
	BTEX	1.08 (mg/kg)	
	Benzene	0.08 (mg/kg)	
Date of Remediation Commencement.	10/9/2023		
Date of Final Sampling or Liner Inspection.	2/23/2024		
Date of Remediation Completion.	2/23/2024		
Estimated Surface Area (sq. ft.) to be reclaimed.	760		
Estimated Volume (cu. yds.) to be reclaimed.	146		
Estimated Surface Area (sq. ft.) to be remediated.	2000		
Estimated Volume (cu. yds.) to be remediated.	450		
Excavation and off-site disposal (dig & haul).	Yes	(Ex-Situ)	
Excavation and on-site remediation (land farm).	No	(Ex-Situ)	
Soil Vapor Extraction.	No	(In-Situ)	
Chemical processing (soil shredding...etc).	No	(In-Situ)	
Biological processing (microbes / fertilizer...etc).	No	(In-Situ)	
Physical processing (soil washing, gypsum...etc).	No	(In-Situ)	
Ground Water Abatement.	No		
Other (Non-listed remedial process).	No		
Closure/Deferral Request C-141			
Deferral Request (attachment with explanation)	Yes		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	Yes		
Total Surface Area (sq. ft.) to be remediated.	2000	(Square Feet)	
Total Volume (cu. yds.) to be remediated.	450	(Cubic Yards)	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.	Yes		
Estimated Surface Area (sq. ft.) to be reclaimed.	2000	(Square Feet)	
Estimated Volume (cu. yds.) to be reclaimed.	450	(Cubic Yards)	
Attached Summary of Additional Remediation Activities.	Yes		
Requesting Approval of Reclamation Completion.	Yes		



January 8, 2024

Spur Energy Partners LLC
920 Memorial City Way, Suite 1000
Houston, Texas 77024

Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Amended Deferral Request
Folk State #011 Battery
U, Section 17, T29E, R17S
Eddy County, New Mexico
Incident ID: NAB1919234395

To Whom It May Concern:

On April 14, 2023, Terracon Consultants, Inc (Terracon) was requested to oversee the remediation of a reportable release at the Folk State #011 Battery (nAPP2232679528) (Folk) site. Terracon personnel were informed by Spur Energy Partners LLC. (Spur) that a release of crude oil had taken place at the site. Terracon personnel were informed that a reportable release of 27 barrels (bbls) of crude oil within secondary containment had taken place at the site and Spur had recovered a total of 25 bbls. Surface ownership is held by the New Mexico State Land Office (SLO).

Spur informed Terracon personnel of a prior release at the site, incident NAB1919234395 which occurred June 12, 2019. Remediation of the June release was completed, and the closure/deferral request was submitted to the New Mexico Oil Conservation Division (NMOCD) on June 24, 2020. On September 30, 2020, The NMOCD denied the closure report submittal, citing the incomplete delineation and confirmation sampling of the release within secondary containment. This Amended Referral Request seeks to confirm the confirmation and delineation sampling for approval of the NMOCD.

Action Items

Completed Actions

- 1) The release assessment activities for incident nAPP2232679528 were executed between October 9, 2023, through November 2, 2023. The complete deferral delineation of incident NAB1919234395 was conducted within the same timeframe due to the overlap in release areas.
- 2) Release assessment maps, laboratory data summary tables, and photographic log are attached within Appendix A.
- 3) Additional soil samples were collected in the secondary containment of the remediation to satisfy the NMCD's requirement for sufficient confirmation samples within 200 square foot (sq.ft.) sections. The additional soil sample results have been included in Appendix A.
- 4) Area to be deferred: Square Footage (2,000) / Cubic Yards (450)

Anticipated Actions

- 1) NMOCD's confirmation of deferral at the site.

Terracon Consultants, Inc. 4518 W Pierce St. Carlsbad, New Mexico 88220
P (806) 544 9276 terracon.com

Amended Deferral Request

Folk State #011 Battery ■ Eddy County, New Mexico

January 8, 2024 ■ Terracon Project No. KH227025

**Remedial Activities**

On October 09, 2023, through October 30, 2023, Terracon mobilized to the site to conduct additional delineation soil sampling activities at the site. Terracon performed soil sample collection activities within the secondary containment of the site. Terracon personnel collected soil samples from 1.5 to 2 feet below ground surface (bgs) to confirm the boundaries of the original release. Additionally, Terracon collected confirmation soil samples at 200 sq.ft. intervals to satisfy the NMOCD's confirmation sampling regulations. The soil samples collected, were in response to the NMOCDs denial of incident NAB1919234395 closure/deferral report. The additional soil sample results and positions can be viewed in Appendix A.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the remaining impacted material proximate to excavation is below the NMOCD RALs. Terracon recommends deferral for material directly under production equipment regarding incident number NAB1919234395, for the Folk State #011 Battery site.

Should you have any questions, please contact the undersigned at (806) 300 0140.

Sincerely,

The Terracon logo features a stylized 'T' composed of three colored squares (green, blue, and red) to the left of the word 'terracon' in a bold, black, sans-serif font.

Prepared by:

Reviewed by:

A handwritten signature in black ink, appearing to read 'Travis Casey', with a small red rectangular mark below it.

Travis Casey
Senior Staff Scientist
Carlsbad

Erin Loyd, P.G. (TX)
Senior Principal
Office Manager – Lubbock

Attachments**Appendix A – Exhibits**

- Exhibit 1 – Topographical Map
- Exhibit 2 – Site Location Map
- Exhibit 3 – Site Sample Map
- Exhibit 3.1 – North Sample Map
- Exhibit 3.2 – Exclusion Map
- Exhibit 4 – Confirmation Sample Map
- Exhibit 5 – Exploratory Boring Map
- Exhibit 6 – Wetlands Map
- Exhibit 7 – Karst Map

Responsive ■ Resourceful ■ Reliable

Amended Deferral Request

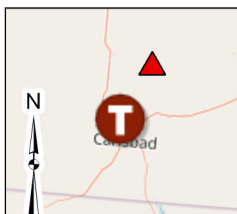
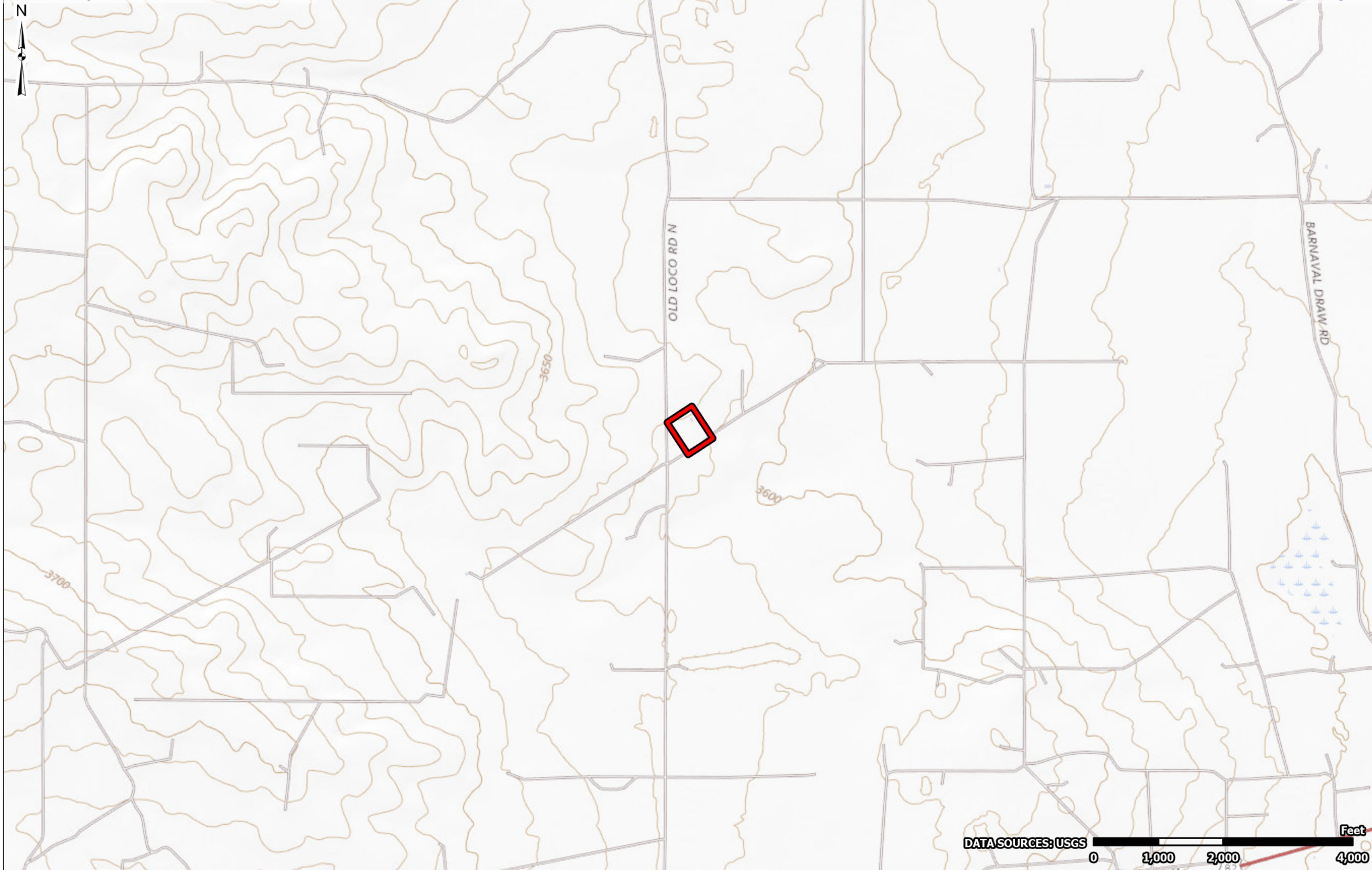
Folk State #011 Battery ■ Eddy County, New Mexico
January 8, 2024 ■ Terracon Project No. KH227025



Laboratory Tables
Photographic Log
Laboratory Summary
Original Closure/Deferral Report


Responsive ■ Resourceful ■ Reliable

APPENDIX A – EXHIBITS



 Site Location

Project No.:
KH227025
Date:
Nov 14 2023
Drawn By:
JWL
Reviewed By:
JRG


4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Topographic Map

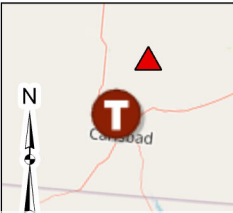
Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

Exhibit

1




DATA SOURCES: Bing 0 40 80 160 Feet



 Site Location

Project No.:
KH227025
Date:
Nov 14 2023
Drawn By:
JWL
Reviewed By:
JRG



4526 W Pierce St
Carlsbad, NM

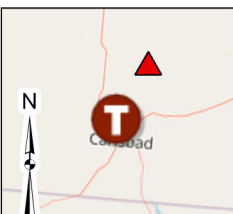
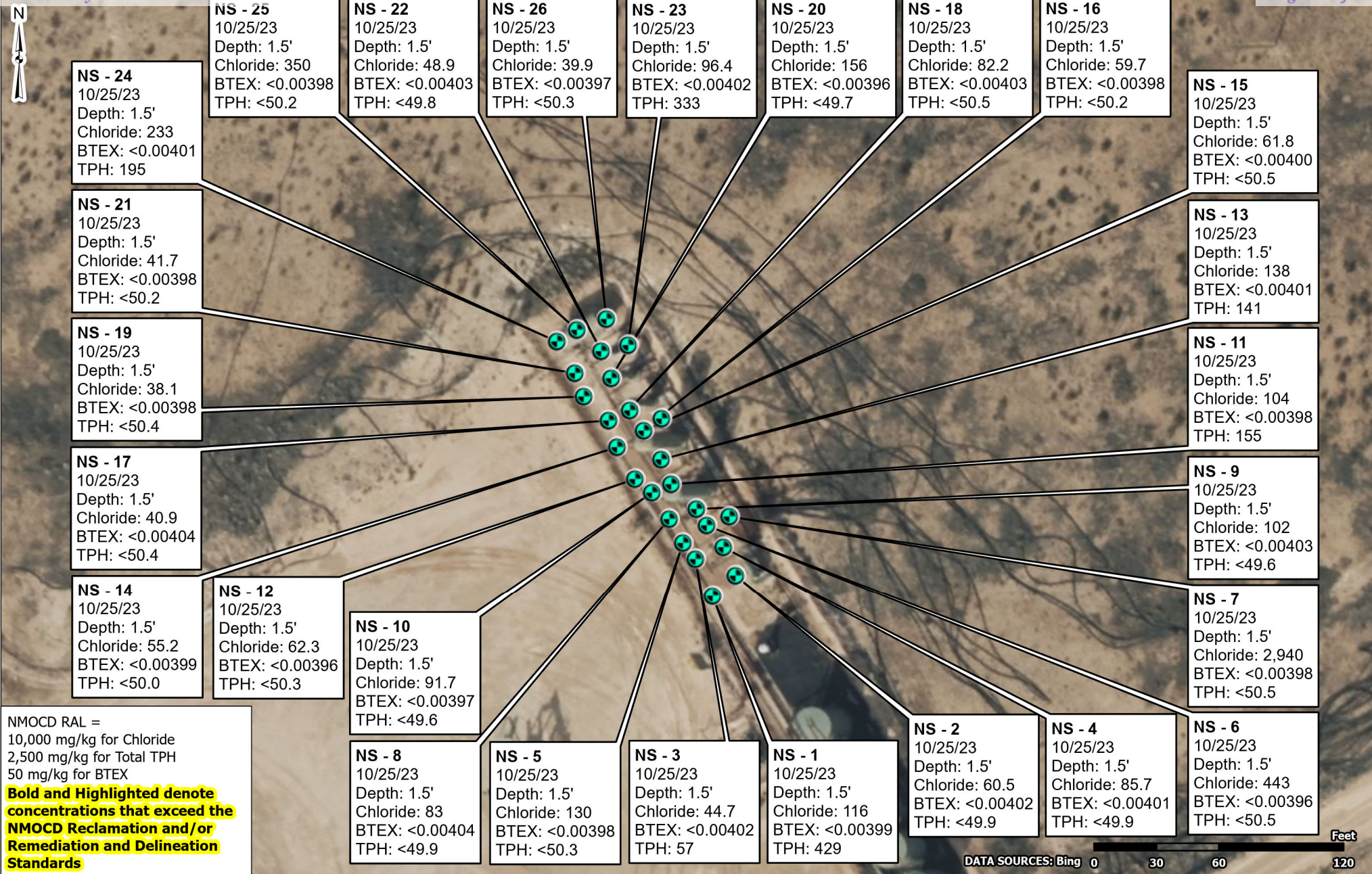
PH. 806-300-0140 terracon.com

Site Location Map

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

Exhibit

2



Northern Sample

Project No.:
KH227025
Date:
Nov 15 2023
Drawn By:
JWL
Reviewed By:
JRG



4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140

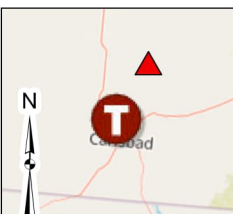
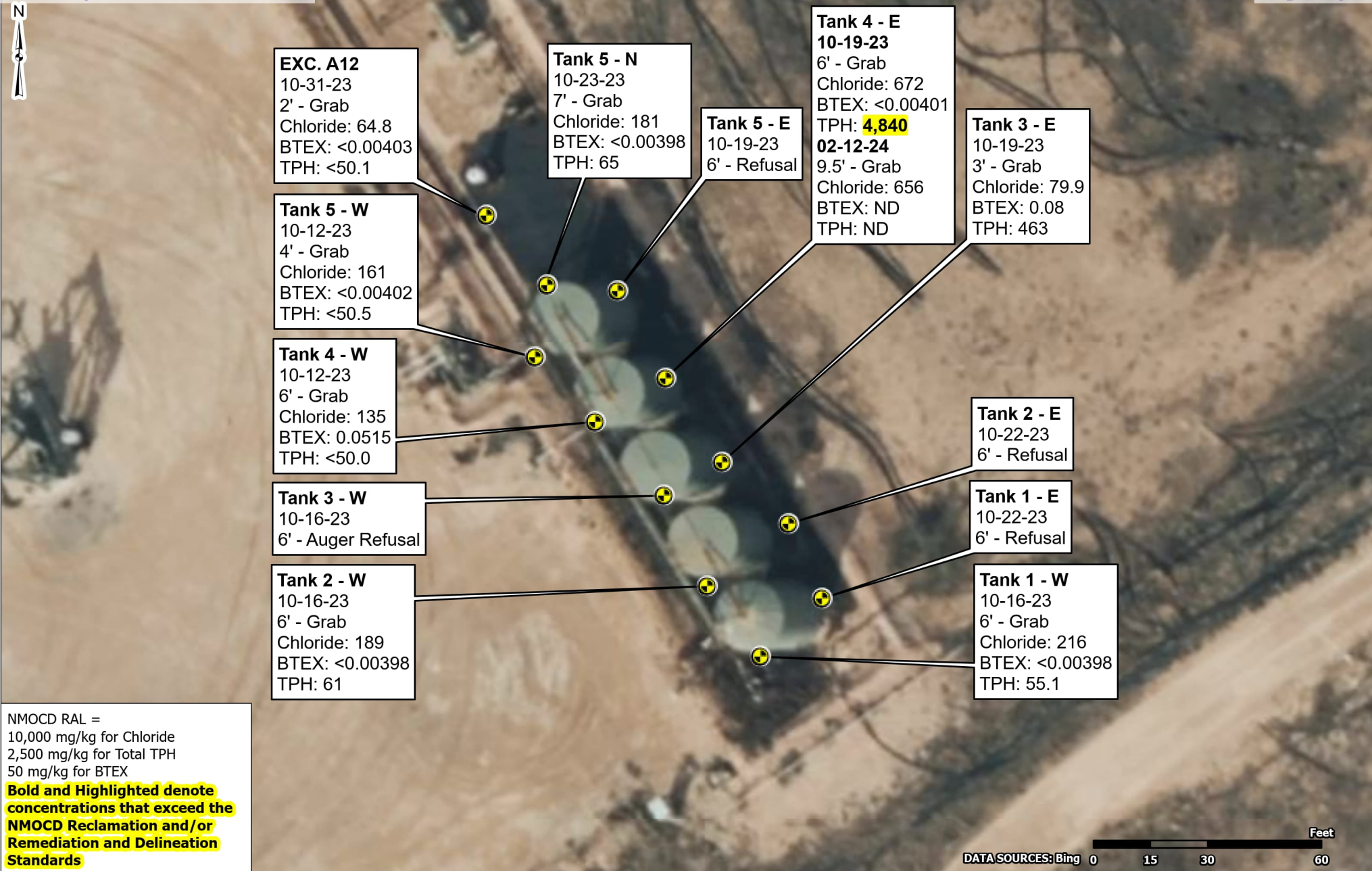
terracon.com

North Sample Map

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

Exhibit

3.1



Exclusion Sample

Project No.:
KH227025
Date:
May 06 2024
Drawn By:
JWL
Reviewed By:
JRG

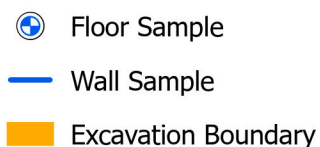
Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com


Exclusion Sample Map

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

Exhibit

3.2



 **Terracon**
4526 W Pierce St
Carlsbad, NM

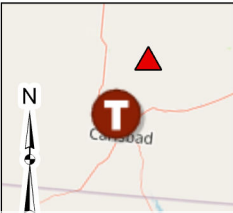
PH. 806-300-0140 terracon.com

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

4




DATA SOURCES: Bing 0 40 80 160 Feet



- Site Location
- Exploratory Boring

Project No.:
KH227025
Date:
Nov 14 2023
Drawn By:
JWL
Reviewed By:
JRG



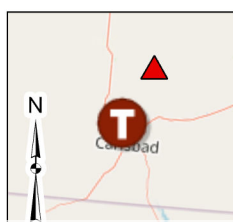
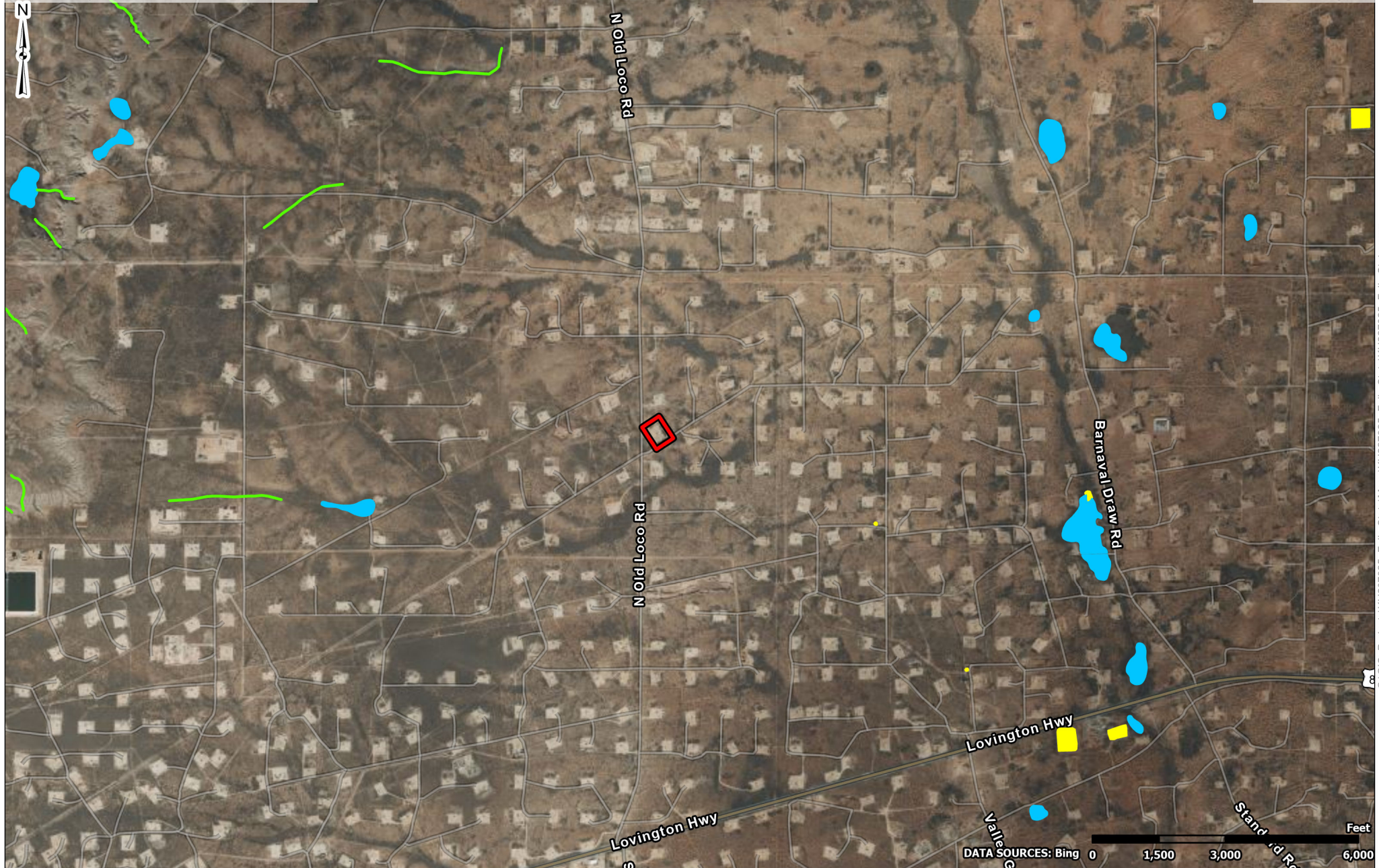
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Exploratory Boring Location Map

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

Exhibit

5



- Site Location
- Freshwater Emergent Wetland
- Freshwater Pond
- Riverine

Project No.:
KH227025
Date:
Nov 14 2023
Drawn By:
JWL
Reviewed By:
JRG

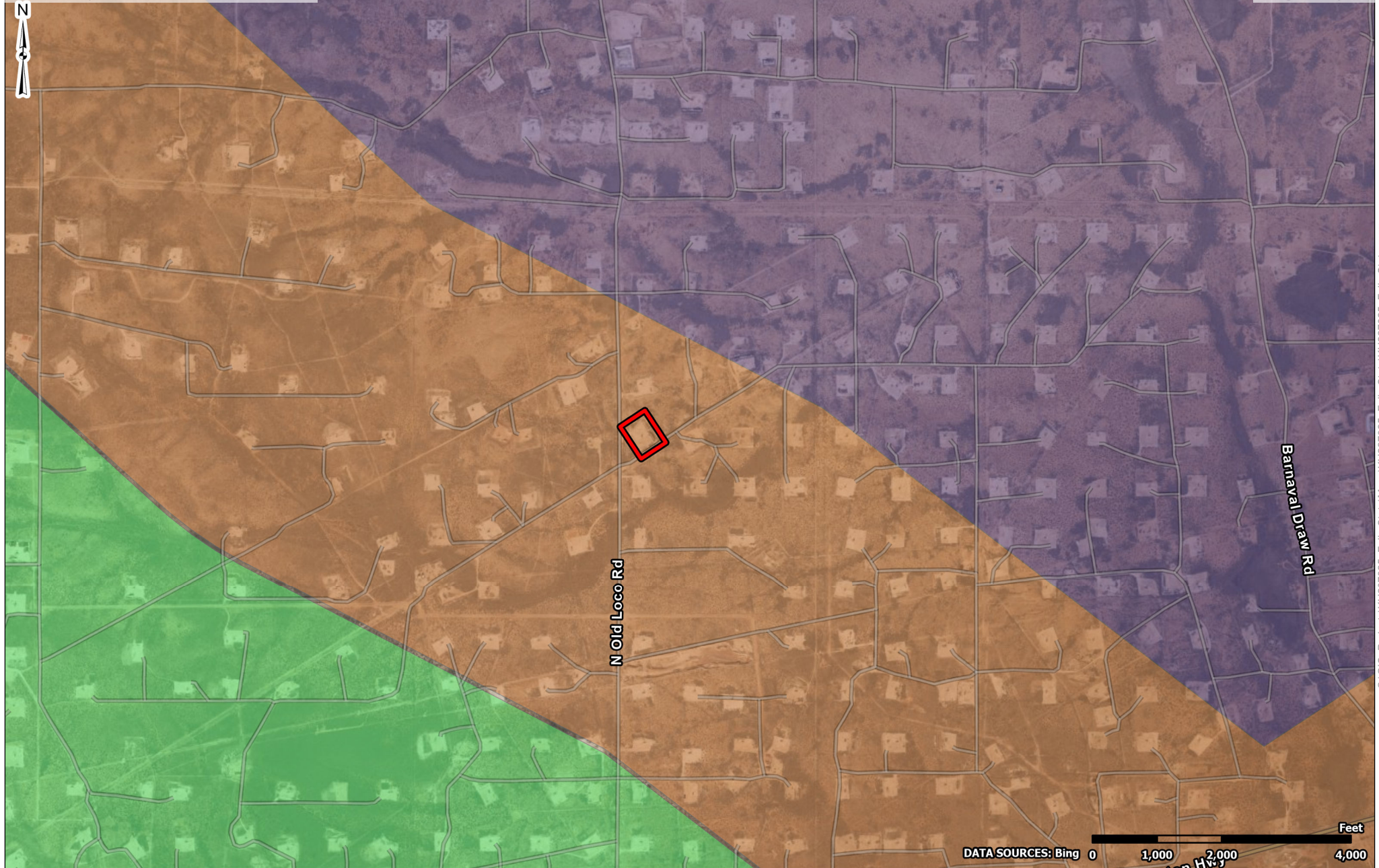
Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Designated Wetland Map

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°


Exhibit

6



- Site Location
- Karst Potential
 - Low
 - Medium
 - High

Project No.: KH227025
Date: Nov 14 2023
Drawn By: JWL
Reviewed By: JRG



4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

Folk State 11 Battery
Eddy County, New Mexico
32.8336551° -104.0954615°

Exhibit

7

Desert Sand Water Well Services, LLC.

Soil Bore Report

General / Well Info	Customer: ESS/Spur Energy		Phone: 575-390-6397	Date: 5/10/20
	Well Name: Folk State		Location: 32.8336260, -104.0965154	

LOG OF WELL	DEPTH		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURES
	FROM	TO		
	0	3	3	TOP SOIL
	3	14	11	CHALECHE
	14	20	6	RED SAND/CLAY
	20	30	10	RED SAND
	30	78	48	ANHYDRITE / RED SNAD / CLAY
				LEFT BORE HOLE OPEN FOR 48 HOURS. UPON RETURNING THE BORE WAS
				STILL DRY AT 78'. PLUGGED BORE HOLE FROM THE BOTTOM UP
				WITH 3/8 HOLE PLUG (BENTONITE CHIP).

Table 1
Soil Analytical Results Summary - Release Assessment

NMOCD Reference No.												
Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample Final Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment												
NS-1	10/25/23 11:02	1.5				116	<0.00200	<0.00399	429	429	<50.1	<50.1
NS-2	10/25/23 11:03	1.5				60.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9
NS-3	10/25/23 11:04	1.5				44.7	<0.00201	<0.00402	57.1	57.1	<49.6	<49.6
NS-4	10/25/23 11:05	1.5				85.7	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9
NS-5	10/25/23 11:06	1.5				130	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3
NS-6	10/25/23 11:07	1.5				443	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5
NS-7	10/25/23 11:08	1.5				2940	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5
NS-8	10/25/23 11:09	1.5				83	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9
NS-9	10/25/23 11:10	1.5				102	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6
NS-10	10/25/23 11:11	1.5				91.7	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6
NS-11	10/25/23 00:00	1.5				104	<0.00199	<0.00398	155	155	<50.2	<50.2
NS-12	10/25/23 00:00	1.5				62.3	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3
NS-13	10/25/23 00:00	1.5				138	<0.00200	<0.00401	141	141	<49.7	<49.7
NS-14	10/25/23 00:00	1.5				55.2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0
NS-15	10/25/23 00:00	1.5				61.8	<0.00200	<0.00400	<50.5	<50.5	<50.5	<50.5
NS-16	10/25/23 00:00	1.5				59.7	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2
NS-17	10/25/23 00:00	1.5				40.9	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4
NS-18	10/25/23 00:00	1.5				82.2	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5
NS-19	10/25/23 00:00	1.5				38.1	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4
NS-20	10/25/23 00:00	1.5				156	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7
NS-21	10/25/23 00:00	1.5				41.7	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2
NS-22	10/25/23 00:00	1.5				48.9	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8
NS-23	10/25/23 00:00	1.5				96.4	<0.00201	<0.00402	333	333	<49.6	<49.6
NS-24	10/25/23 00:00	1.5				233	<0.00200	<0.00401	195	195	<50.3	<50.3
NS-25	10/25/23 00:00	1.5				350	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2
NS-26	10/25/23 00:00	1.5				39.9	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)						10,000	10	50	2,500	1,000	N/A	
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)						10,000	10	50	2,500	1,000	N/A	

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 4
Soil Analytical Results Summary - Deferral Zone Samples

NMOCD Reference No.											
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Deferral Samples											
TANK 1 - W	10/16/23 09:58	6	Grab	In-situ	216	ND	ND	55.1	ND	55.1	ND
TANK 2 - W	10/16/23 15:13	6	Grab	In-situ	189	ND	ND	61	ND	61	ND
TANK 3 - W	10/16/2023	6		Refusal					ND		ND
TANK 4 - W	10/12/23 10:49	6	Grab	In-situ	135	ND	0.00515	ND	ND	ND	ND
TANK 5 - W	10/12/23 12:28	4	Grab	In-situ	161	ND	ND	ND	ND	ND	ND
TANK 1 - E	10/22/2023	6		Refusal					ND		ND
TANK 2 - E	10/22/2023	6		Refusal					ND		ND
TANK 3 - E	10/19/23 15:50	3	Grab	Refusal	79.9	0.08	0.08	463	ND	463	ND
TANK 4 - E	10/19/23 11:16	6	Grab	Refusal	672	ND	ND	4840	ND	4840	ND
TANK 4 - E	2/23/2024	9.5	Grab	Refusal	656	ND	ND	ND	ND	ND	ND
TANK 5 - N	10/23/23 14:01	7	Grab	In-situ	181	ND	ND	65	ND	65	ND
Exc. A12	10/31/23 14:21	2	Grab	In-situ	64.8	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					10,000	10	10	2,500	1,000		N/A
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					10,000	10	10	2,500	1,000		N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 2
Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples)

NMOCD Reference No.											
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Floor Samples											
A1, B1 - FS	10/18/23 12:53	4	Composite	In-situ	238	<0.00199	<0.00398	ND	ND	ND	ND
A4 - FS	10/23/23 11:32	5	Composite	In-situ	172	<0.00200	<0.00401	ND	ND	ND	ND
A6 - FS	10/23/23 12:34	5	Composite	In-situ	360	<0.00199	<0.00398	72	ND	72	ND
A7 - FS	10/31/2023	2	Composite	In-situ	268	<0.00202	<0.00403	ND	ND	ND	ND
B12 - FS	10/19/23 12:27	4	Composite	In-situ	47.7	<0.0504	<0.101	120	ND	120	ND
B12 - FS	10/25/2023	4	Composite	In-situ	109	<0.00200	<0.00399	ND	ND	ND	ND
C13 - FS	10/23/23 13:07	4	Composite	In-situ	113	<0.00200	<0.00399	193	ND	193	ND
C13 - FS	10/31/2023	4	Composite	In-situ	79.1	<0.00200	<0.00401	82	ND	82	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					10,000	10	10	2,500	1,000		N/A
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					10,000	10	10	2,500	1,000		N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 3
Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples)

NMOCD Reference No.												
Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample Final Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
A1, B1 - S - SW	10/18/23 11:03	0	4	Composite	In-situ	112	<0.00200	<0.00401	63.6	ND	63.6	ND
A1 - W - SW	10/23/23 13:47	0	4	Composite	In-situ	147	<0.00200	<0.00401	ND	ND	ND	ND
A4,A6 - W - SW	10/23/23 15:05	0	5	Composite	In-situ	339	<0.00200	<0.00399	ND	ND	ND	ND
A7 - W - SW	10/18/23 10:54	0	2	Composite	In-situ	125	<0.00202	<0.00403	1310	ND	1310	ND
A7 - W - SW	10/31/23 12:11	0	2	Composite	In-situ	408	<0.00200	<0.00399	62	ND	62	ND
B12,B13 - W - SW	10/23/23 08:54	0	4	Composite	In-situ	156	<0.00201	<0.00402	543	ND	543	ND
C12,C13 - NE - SW	10/23/23 09:34	0	4	Composite	In-situ	90.8	<0.00199	<0.00398	181	ND	181	ND
C12,C13 - NE - SW	10/31/2023	0	4	Composite	In-situ	60	<0.00200	<0.00399	85.9	ND	85.9	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)						10,000	10	50	2,500		1,000	N/A
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)						10,000	10	50	2,500		1,000	N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
2. TPH = Total petroleum hydrocarbons
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).
NA = Not Analyzed
Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.
In-situ = Sample is representative of material which remains in-place at the site.
Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Folk 11 ■ Lea County, New Mexico
November 14, 2023 ■ NMOCD ID: NAB1919234395



PHOTO 1: View of the signs.



PHOTO 2: View of the signs 2.

Responsive ■ Resourceful ■ Reliable

Folk 11 ■ Lea County, New Mexico
November 14, 2023 ■ NMOCD ID: NAB1919234395



PHOTO 3: View of the Northern area of the pad



PHOTO 4: North facing view of the tanks in the Northern area.

Responsive ■ Resourceful ■ Reliable

Folk 11 ■ Lea County, New Mexico
November 14, 2023 ■ NMOCD ID: NAB1919234395



PHOTO 5: South facing view of the East side of tanks in the Northern area



PHOTO 6: East facing view of the Northern area.

Responsive ■ Resourceful ■ Reliable



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
2526 W Pierce Street
Carlsbad, New Mexico 88220

Generated 11/6/2023 12:13:39 PM

JOB DESCRIPTION

Folk 11
SDG NUMBER KH227025

JOB NUMBER

880-35214-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/6/2023 12:13:39 PM

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

Eurofins Midland

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Laboratory Job ID: 880-35214-1
SDG: KH227025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	8
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Job ID: 880-35214-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35214-1**

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

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

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

Receipt

The samples were received on 11/2/2023 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: NS-1 (880-35214-1), NS-11 (880-35214-2), NS-13 (880-35214-3), NS-23 (880-35214-4), NS-24 (880-35214-5), A7-FS (880-35214-6) and A7-W-SW (880-35214-7).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66035 and 880-66069 and analytical batch 880-66027 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66064 and analytical batch 880-66024 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66024/31), (CCV 880-66024/47) and (CCV 880-66024/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: NS-1 (880-35214-1), NS-11 (880-35214-2), NS-13 (880-35214-3), NS-23 (880-35214-4), NS-24 (880-35214-5), A7-FS (880-35214-6), (880-35217-A-21-B), (880-35217-A-21-C MS) and (880-35217-A-21-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66134 and analytical batch 880-66125 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: A7-W-SW (880-35214-7), (880-35214-A-7-E MS) and (880-35214-A-7-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66125/20) and (CCV 880-66125/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Job ID: 880-35214-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: NS-1

Lab Sample ID: 880-35214-1

Date Collected: 10/31/23 11:39

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 00:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 00:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 00:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/02/23 12:07	11/03/23 00:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 00:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/02/23 12:07	11/03/23 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/02/23 12:07	11/03/23 00:15	1
1,4-Difluorobenzene (Surr)	109		70 - 130	11/02/23 12:07	11/03/23 00:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/03/23 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		49.9		mg/Kg			11/03/23 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/23 11:31	11/03/23 05:26	1
Diesel Range Organics (Over C10-C28)	180		49.9		mg/Kg		11/02/23 11:31	11/03/23 05:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/23 11:31	11/03/23 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130	11/02/23 11:31	11/03/23 05:26	1
o-Terphenyl	166	S1+	70 - 130	11/02/23 11:31	11/03/23 05:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.7		5.03		mg/Kg			11/03/23 02:45	1

Client Sample ID: NS-11

Lab Sample ID: 880-35214-2

Date Collected: 10/31/23 11:41

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 00:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/02/23 12:07	11/03/23 00:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 00:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/02/23 12:07	11/03/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/02/23 12:07	11/03/23 00:36	1

Eurofins Midland

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: NS-11

Lab Sample ID: 880-35214-2

Date Collected: 10/31/23 11:41

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	11/02/23 12:07	11/03/23 00:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/23 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/03/23 05:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/02/23 11:31	11/03/23 05:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/02/23 11:31	11/03/23 05:48	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/02/23 11:31	11/03/23 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				11/02/23 11:31	11/03/23 05:48	1
o-Terphenyl	155	S1+	70 - 130				11/02/23 11:31	11/03/23 05:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		5.01		mg/Kg			11/03/23 02:51	1

Client Sample ID: NS-13

Lab Sample ID: 880-35214-3

Date Collected: 10/31/23 11:43

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/02/23 12:07	11/03/23 00:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/02/23 12:07	11/03/23 00:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/02/23 12:07	11/03/23 00:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/02/23 12:07	11/03/23 00:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/02/23 12:07	11/03/23 00:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/02/23 12:07	11/03/23 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/02/23 12:07	11/03/23 00:56	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/02/23 12:07	11/03/23 00:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/03/23 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/03/23 06:10	1

Eurofins Midland

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: NS-13

Lab Sample ID: 880-35214-3

Date Collected: 10/31/23 11:43

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/23 11:31	11/03/23 06:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/23 11:31	11/03/23 06:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/23 11:31	11/03/23 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130				11/02/23 11:31	11/03/23 06:10	1
o-Terphenyl	160	S1+	70 - 130				11/02/23 11:31	11/03/23 06:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		5.04		mg/Kg			11/03/23 03:07	1

Client Sample ID: NS-23

Lab Sample ID: 880-35214-4

Date Collected: 10/31/23 11:45

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/02/23 12:07	11/03/23 01:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/02/23 12:07	11/03/23 01:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/02/23 12:07	11/03/23 01:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/02/23 12:07	11/03/23 01:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/02/23 12:07	11/03/23 01:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/02/23 12:07	11/03/23 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				11/02/23 12:07	11/03/23 01:16	1
1,4-Difluorobenzene (Surr)	113		70 - 130				11/02/23 12:07	11/03/23 01:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/03/23 01:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	193		50.3		mg/Kg			11/03/23 06:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/02/23 11:31	11/03/23 06:32	1
Diesel Range Organics (Over C10-C28)	193		50.3		mg/Kg		11/02/23 11:31	11/03/23 06:32	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/02/23 11:31	11/03/23 06:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	180	S1+	70 - 130				11/02/23 11:31	11/03/23 06:32	1
o-Terphenyl	171	S1+	70 - 130				11/02/23 11:31	11/03/23 06:32	1

Eurofins Midland

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: NS-23

Lab Sample ID: 880-35214-4

Date Collected: 10/31/23 11:45

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		4.98		mg/Kg			11/03/23 03:12	1

Client Sample ID: NS-24

Lab Sample ID: 880-35214-5

Date Collected: 10/31/23 11:47

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/02/23 12:07	11/03/23 01:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/02/23 12:07	11/03/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/02/23 12:07	11/03/23 01:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/02/23 12:07	11/03/23 01:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/03/23 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/03/23 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/02/23 11:31	11/03/23 06:54	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/02/23 11:31	11/03/23 06:54	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/02/23 11:31	11/03/23 06:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				11/02/23 11:31	11/03/23 06:54	1
o-Terphenyl	155	S1+	70 - 130				11/02/23 11:31	11/03/23 06:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.9		5.04		mg/Kg			11/03/23 03:17	1

Eurofins Midland

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: A7-FS

Lab Sample ID: 880-35214-6

Date Collected: 10/31/23 12:09

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/02/23 12:07	11/03/23 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/02/23 12:07	11/03/23 01:57	1
1,4-Difluorobenzene (Surr)	113		70 - 130	11/02/23 12:07	11/03/23 01:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/03/23 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/03/23 07:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/02/23 11:31	11/03/23 07:16	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/02/23 11:31	11/03/23 07:16	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/02/23 11:31	11/03/23 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	185	S1+	70 - 130	11/02/23 11:31	11/03/23 07:16	1
o-Terphenyl	172	S1+	70 - 130	11/02/23 11:31	11/03/23 07:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.05		mg/Kg			11/03/23 03:22	1

Client Sample ID: A7-W-SW

Lab Sample ID: 880-35214-7

Date Collected: 10/31/23 12:11

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/02/23 12:07	11/03/23 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/02/23 12:07	11/03/23 02:18	1

Eurofins Midland

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: A7-W-SW
Date Collected: 10/31/23 12:11
Date Received: 11/02/23 10:20
Sample Depth: 0-2

Lab Sample ID: 880-35214-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)										
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene (Surr)	118		70 - 130				11/02/23 12:07	11/03/23 02:18	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/23 02:18	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	62.0		50.3		mg/Kg			11/03/23 11:01	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/03/23 09:36	11/03/23 11:01	1	
Diesel Range Organics (Over C10-C28)	62.0		50.3		mg/Kg		11/03/23 09:36	11/03/23 11:01	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/03/23 09:36	11/03/23 11:01	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	176	S1+	70 - 130				11/03/23 09:36	11/03/23 11:01	1	
o-Terphenyl	169	S1+	70 - 130				11/03/23 09:36	11/03/23 11:01	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	408		4.98		mg/Kg			11/03/23 03:27	1	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-35214-1	NS-1	97	109
880-35214-2	NS-11	101	112
880-35214-3	NS-13	97	105
880-35214-4	NS-23	104	113
880-35214-5	NS-24	102	106
880-35214-6	A7-FS	104	113
880-35214-7	A7-W-SW	106	118
LCS 880-66069/1-A	Lab Control Sample	94	104
LCSD 880-66069/2-A	Lab Control Sample Dup	99	111
MB 880-66035/5-A	Method Blank	110	144 S1+
MB 880-66069/5-A	Method Blank	103	145 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35214-1	NS-1	176 S1+	166 S1+
880-35214-2	NS-11	162 S1+	155 S1+
880-35214-3	NS-13	170 S1+	160 S1+
880-35214-4	NS-23	180 S1+	171 S1+
880-35214-5	NS-24	159 S1+	155 S1+
880-35214-6	A7-FS	185 S1+	172 S1+
880-35214-7	A7-W-SW	176 S1+	169 S1+
880-35214-7 MS	A7-W-SW	178 S1+	160 S1+
880-35214-7 MSD	A7-W-SW	174 S1+	155 S1+
LCS 880-66064/2-A	Lab Control Sample	110	119
LCS 880-66134/2-A	Lab Control Sample	106	117
LCSD 880-66064/3-A	Lab Control Sample Dup	119	128
LCSD 880-66134/3-A	Lab Control Sample Dup	102	110
MB 880-66064/1-A	Method Blank	196 S1+	217 S1+
MB 880-66134/1-A	Method Blank	219 S1+	213 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66035/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66027							Prep Batch: 66035		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/02/23 08:43	11/02/23 11:29	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130				11/02/23 08:43	11/02/23 11:29	1

Lab Sample ID: MB 880-66069/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66027							Prep Batch: 66069		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/02/23 23:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/02/23 23:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/02/23 23:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/23 12:07	11/02/23 23:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/02/23 23:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/02/23 12:07	11/02/23 23:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/02/23 12:07	11/02/23 23:05	1
1,4-Difluorobenzene (Surr)	145	S1+	70 - 130				11/02/23 12:07	11/02/23 23:05	1

Lab Sample ID: LCS 880-66069/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66027							Prep Batch: 66069		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1000		mg/Kg		100	70 - 130		
Toluene	0.100	0.08715		mg/Kg		87	70 - 130		
Ethylbenzene	0.100	0.08222		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	0.200	0.1907		mg/Kg		95	70 - 130		
o-Xylene	0.100	0.09449		mg/Kg		94	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: LCSD 880-66069/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66027							Prep Batch: 66069		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1074		mg/Kg		107	70 - 130	7	35

Eurofins Midland

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

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

Lab Sample ID: LCSD 880-66069/2-A

Matrix: Solid

Analysis Batch: 66027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66069

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.08546		mg/Kg		85	70 - 130	2		35
Ethylbenzene	0.100	0.08468		mg/Kg		85	70 - 130	3		35
m-Xylene & p-Xylene	0.200	0.1912		mg/Kg		96	70 - 130	0		35
o-Xylene	0.100	0.09184		mg/Kg		92	70 - 130	3		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-66064/1-A

Matrix: Solid

Analysis Batch: 66024

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66064

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/23 11:31	11/02/23 22:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/23 11:31	11/02/23 22:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/23 11:31	11/02/23 22:03	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	196	S1+	70 - 130	11/02/23 11:31	11/02/23 22:03	1
o-Terphenyl	217	S1+	70 - 130	11/02/23 11:31	11/02/23 22:03	1

Lab Sample ID: LCS 880-66064/2-A

Matrix: Solid

Analysis Batch: 66024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	945.3		mg/Kg		95	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130			

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	110		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-66064/3-A

Matrix: Solid

Analysis Batch: 66024

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66064

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		101	70 - 130	7		20
Diesel Range Organics (Over C10-C28)	1000	1131		mg/Kg		113	70 - 130	12		20

Eurofins Midland

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

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

Lab Sample ID: LCSD 880-66064/3-A

Matrix: Solid

Analysis Batch: 66024

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66064

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: MB 880-66134/1-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66134

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/23 07:36	11/03/23 08:26	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/23 07:36	11/03/23 08:26	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/23 07:36	11/03/23 08:26	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	219	S1+	70 - 130				11/03/23 07:36	11/03/23 08:26	1	
o-Terphenyl	213	S1+	70 - 130				11/03/23 07:36	11/03/23 08:26	1	

Lab Sample ID: LCS 880-66134/2-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66134

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	915.5		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	993.8		mg/Kg		99	70 - 130		
Surrogate										
1-Chlorooctane										
o-Terphenyl										

Lab Sample ID: LCSD 880-66134/3-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66134

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	892.9		mg/Kg		89	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)		1000	943.7		mg/Kg		94	70 - 130	5	20	
Surrogate											
1-Chlorooctane											
o-Terphenyl											

Eurofins Midland

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

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

Lab Sample ID: 880-35214-7 MS

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: A7-W-SW

Prep Type: Total/NA

Prep Batch: 66134

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	872.8		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	62.0		997	1357		mg/Kg		130	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	178	S1+	70 - 130								
o-Terphenyl	160	S1+	70 - 130								

Lab Sample ID: 880-35214-7 MSD

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: A7-W-SW

Prep Type: Total/NA

Prep Batch: 66134

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	846.2		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	62.0		997	1304		mg/Kg		125	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	174	S1+	70 - 130								
o-Terphenyl	155	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66073/1-A

Matrix: Solid

Analysis Batch: 66089

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			11/03/23 02:04	1

Lab Sample ID: LCS 880-66073/2-A

Matrix: Solid

Analysis Batch: 66089

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Chloride	250	268.0		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-66073/3-A

Matrix: Solid

Analysis Batch: 66089

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		Limits
Chloride	250	269.3		mg/Kg		108	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

GC VOA

Analysis Batch: 66027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Total/NA	Solid	8021B	66069
880-35214-2	NS-11	Total/NA	Solid	8021B	66069
880-35214-3	NS-13	Total/NA	Solid	8021B	66069
880-35214-4	NS-23	Total/NA	Solid	8021B	66069
880-35214-5	NS-24	Total/NA	Solid	8021B	66069
880-35214-6	A7-FS	Total/NA	Solid	8021B	66069
880-35214-7	A7-W-SW	Total/NA	Solid	8021B	66069
MB 880-66035/5-A	Method Blank	Total/NA	Solid	8021B	66035
MB 880-66069/5-A	Method Blank	Total/NA	Solid	8021B	66069
LCS 880-66069/1-A	Lab Control Sample	Total/NA	Solid	8021B	66069
LCSD 880-66069/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66069

Prep Batch: 66035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66035/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 66069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Total/NA	Solid	5035	
880-35214-2	NS-11	Total/NA	Solid	5035	
880-35214-3	NS-13	Total/NA	Solid	5035	
880-35214-4	NS-23	Total/NA	Solid	5035	
880-35214-5	NS-24	Total/NA	Solid	5035	
880-35214-6	A7-FS	Total/NA	Solid	5035	
880-35214-7	A7-W-SW	Total/NA	Solid	5035	
MB 880-66069/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66069/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66069/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 66193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Total/NA	Solid	Total BTEX	
880-35214-2	NS-11	Total/NA	Solid	Total BTEX	
880-35214-3	NS-13	Total/NA	Solid	Total BTEX	
880-35214-4	NS-23	Total/NA	Solid	Total BTEX	
880-35214-5	NS-24	Total/NA	Solid	Total BTEX	
880-35214-6	A7-FS	Total/NA	Solid	Total BTEX	
880-35214-7	A7-W-SW	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 66024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Total/NA	Solid	8015B NM	66064
880-35214-2	NS-11	Total/NA	Solid	8015B NM	66064
880-35214-3	NS-13	Total/NA	Solid	8015B NM	66064
880-35214-4	NS-23	Total/NA	Solid	8015B NM	66064
880-35214-5	NS-24	Total/NA	Solid	8015B NM	66064
880-35214-6	A7-FS	Total/NA	Solid	8015B NM	66064
MB 880-66064/1-A	Method Blank	Total/NA	Solid	8015B NM	66064
LCS 880-66064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66064

Eurofins Midland

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

GC Semi VOA (Continued)

Analysis Batch: 66024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-66064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66064

Prep Batch: 66064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Total/NA	Solid	8015NM Prep	
880-35214-2	NS-11	Total/NA	Solid	8015NM Prep	
880-35214-3	NS-13	Total/NA	Solid	8015NM Prep	
880-35214-4	NS-23	Total/NA	Solid	8015NM Prep	
880-35214-5	NS-24	Total/NA	Solid	8015NM Prep	
880-35214-6	A7-FS	Total/NA	Solid	8015NM Prep	
MB 880-66064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-7	A7-W-SW	Total/NA	Solid	8015B NM	66134
MB 880-66134/1-A	Method Blank	Total/NA	Solid	8015B NM	66134
LCS 880-66134/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66134
LCSD 880-66134/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66134
880-35214-7 MS	A7-W-SW	Total/NA	Solid	8015B NM	66134
880-35214-7 MSD	A7-W-SW	Total/NA	Solid	8015B NM	66134

Prep Batch: 66134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-7	A7-W-SW	Total/NA	Solid	8015NM Prep	
MB 880-66134/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66134/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66134/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35214-7 MS	A7-W-SW	Total/NA	Solid	8015NM Prep	
880-35214-7 MSD	A7-W-SW	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Total/NA	Solid	8015 NM	
880-35214-2	NS-11	Total/NA	Solid	8015 NM	
880-35214-3	NS-13	Total/NA	Solid	8015 NM	
880-35214-4	NS-23	Total/NA	Solid	8015 NM	
880-35214-5	NS-24	Total/NA	Solid	8015 NM	
880-35214-6	A7-FS	Total/NA	Solid	8015 NM	
880-35214-7	A7-W-SW	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Soluble	Solid	DI Leach	
880-35214-2	NS-11	Soluble	Solid	DI Leach	
880-35214-3	NS-13	Soluble	Solid	DI Leach	
880-35214-4	NS-23	Soluble	Solid	DI Leach	
880-35214-5	NS-24	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

HPLC/IC (Continued)

Leach Batch: 66073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Soluble	Solid	DI Leach	
880-35214-7	A7-W-SW	Soluble	Solid	DI Leach	
MB 880-66073/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66073/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66073/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 66089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-1	NS-1	Soluble	Solid	300.0	66073
880-35214-2	NS-11	Soluble	Solid	300.0	66073
880-35214-3	NS-13	Soluble	Solid	300.0	66073
880-35214-4	NS-23	Soluble	Solid	300.0	66073
880-35214-5	NS-24	Soluble	Solid	300.0	66073
880-35214-6	A7-FS	Soluble	Solid	300.0	66073
880-35214-7	A7-W-SW	Soluble	Solid	300.0	66073
MB 880-66073/1-A	Method Blank	Soluble	Solid	300.0	66073
LCS 880-66073/2-A	Lab Control Sample	Soluble	Solid	300.0	66073
LCSD 880-66073/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66073

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: NS-1

Date Collected: 10/31/23 11:39

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 00:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 00:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 05:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 05:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 02:45	CH	EET MID

Client Sample ID: NS-11

Date Collected: 10/31/23 11:41

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 00:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 00:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 05:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 05:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 02:51	CH	EET MID

Client Sample ID: NS-13

Date Collected: 10/31/23 11:43

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 00:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 00:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 06:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 06:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:07	CH	EET MID

Client Sample ID: NS-23

Date Collected: 10/31/23 11:45

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 01:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 01:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: NS-23

Date Collected: 10/31/23 11:45

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			66162	11/03/23 06:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 06:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:12	CH	EET MID

Client Sample ID: NS-24

Date Collected: 10/31/23 11:47

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 01:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 01:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 06:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 06:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:17	CH	EET MID

Client Sample ID: A7-FS

Date Collected: 10/31/23 12:09

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 01:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 01:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 07:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 07:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:22	CH	EET MID

Client Sample ID: A7-W-SW

Date Collected: 10/31/23 12:11

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 02:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 02:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 11:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66134	11/03/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66125	11/03/23 11:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Client Sample ID: A7-W-SW

Date Collected: 10/31/23 12:11

Date Received: 11/02/23 10:20

Lab Sample ID: 880-35214-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:27	CH	EET MID

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 880-35214-1
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-35214-1	NS-1	Solid	10/31/23 11:39	11/02/23 10:20	1.5
880-35214-2	NS-11	Solid	10/31/23 11:41	11/02/23 10:20	1.5
880-35214-3	NS-13	Solid	10/31/23 11:43	11/02/23 10:20	1.5
880-35214-4	NS-23	Solid	10/31/23 11:45	11/02/23 10:20	1.5
880-35214-5	NS-24	Solid	10/31/23 11:47	11/02/23 10:20	1.5
880-35214-6	A7-FS	Solid	10/31/23 12:09	11/02/23 10:20	2
880-35214-7	A7-W-SW	Solid	10/31/23 12:11	11/02/23 10:20	0-2



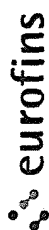
Work O

880-35214 Chain of Custody

Chain of Custody

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

Environment Testing
 Xenco



www.xenco.com Page of

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other

Project Manager: Joseph Guesnier

Company Name: Terracon

Address: 4526 W Pierce St

City, State ZIP: Carlsbad NM, 88220

Phone: (806)-300-0140

Bill to: (if different) Spur

Company Name: Terracon

Address: 4526 W Pierce St

City, State ZIP: Carlsbad NM, 88220

Phone: (806)-300-0140

Email: Gus.Sanchez@terracon.com; Travis.Casey@terracon.com; Joseph.Guesnier@terracon.com

SAMPLE RECEIPT		Turn Around		Parameters		ANALYSIS REQUEST		Preservative Codes	
Project Name:	Project Number:	Project Location:	Project Name:	Due Date:	Wet Ice:	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:
Folk 11	KH227025	Gus Sanchez	48 hour	11:39	Yes	N/A	0.2	11:41	11:43
<p>Temp Blank: Yes No</p> <p>Thermometer ID: T11007</p> <p>Correction Factor: -0.2</p> <p>Temperature Reading: 0.8</p> <p>Corrected Temperature: 0.6</p>									
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)
NS-1	Soil	10-31-23	11:39	1.5	Comp	1	✓	✓	✓
NS-11	Soil	10-31-23	11:41	1.5	Comp	1	✓	✓	✓
NS-13	Soil	10-31-23	11:43	1.5	Comp	1	✓	✓	✓
NS-23	Soil	10-31-23	11:45	1.5	Comp	1	✓	✓	✓
NS-24	Soil	10-31-23	11:47	1.5	Comp	1	✓	✓	✓
A7-FS	Soil	10-31-23	12:09	2	Comp	1	✓	✓	✓
A7-W-SW	Soil	10-31-23	12:11	0-2	Comp	1	✓	✓	✓
<p>None NO</p> <p>DI Water H₂O</p> <p>Cool: Cool</p> <p>MeOH: Me</p> <p>HCL: HC</p> <p>HNO₃: HN</p> <p>H₂SO₄: H₂</p> <p>NaOH: Na</p> <p>H₃PO₄: HP</p> <p>NaHSO₄: NABIS</p> <p>Na₂S₂O₃: NaSO₃</p> <p>Zn Acetate+NaOH: Zn</p> <p>NaOH+Ascorbic Acid: SACP</p>									
Sample Comments									
2.3/2.5									

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

Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/2451/7470/7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11/1 930	<i>[Signature]</i>	<i>[Signature]</i>	11/2/23
					1020

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 880-35214-1

SDG Number: KH227025

Login Number: 35214

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424
Generated 10/17/2023 2:53:15 PM

JOB DESCRIPTION

Folk 11 State
SDG NUMBER KH 227025

JOB NUMBER

890-5455-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.
Released to Imaging: 8/7/2024 6:17:27 AM

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
10/17/2023 2:53:15 PM

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

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Laboratory Job ID: 890-5455-1
SDG: KH 227025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Job ID: 890-5455-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5455-1

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

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

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

Receipt

The samples were received on 10/13/2023 12:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: TANK 5-W (890-5455-1) and TANK 4-W (890-5455-2).

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64789 and analytical batch 880-64805 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Client Sample ID: TANK 5-W

Lab Sample ID: 890-5455-1

Date Collected: 10/12/23 12:28

Matrix: Solid

Date Received: 10/13/23 12:46

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/23 08:37	10/16/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/16/23 08:37	10/16/23 13:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/16/23 08:37	10/16/23 13:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/16/23 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/16/23 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/16/23 10:59	10/16/23 15:03	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/16/23 10:59	10/16/23 15:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/16/23 10:59	10/16/23 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	10/16/23 10:59	10/16/23 15:03	1
o-Terphenyl	85		70 - 130	10/16/23 10:59	10/16/23 15:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.97		mg/Kg			10/16/23 15:21	1

Client Sample ID: TANK 4-W

Lab Sample ID: 890-5455-2

Date Collected: 10/12/23 10:49

Matrix: Solid

Date Received: 10/13/23 12:46

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
Ethylbenzene	0.00214		0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
o-Xylene	0.00301		0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/23 08:37	10/16/23 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/16/23 08:37	10/16/23 12:02	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Client Sample ID: TANK 4-W

Lab Sample ID: 890-5455-2

Date Collected: 10/12/23 10:49

Matrix: Solid

Date Received: 10/13/23 12:46

Sample Depth: 6'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	10/16/23 08:37	10/16/23 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00515		0.00398		mg/Kg			10/16/23 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/16/23 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/16/23 10:59	10/16/23 15:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/16/23 10:59	10/16/23 15:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/16/23 10:59	10/16/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	10/16/23 10:59	10/16/23 15:26	1
o-Terphenyl	82		70 - 130	10/16/23 10:59	10/16/23 15:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.97		mg/Kg			10/16/23 15:26	1

Eurofins Carlsbad

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5455-1	TANK 5-W	98	79
890-5455-1 MS	TANK 5-W	119	94
890-5455-1 MSD	TANK 5-W	113	113
890-5455-2	TANK 4-W	115	87
LCS 880-64769/1-A	Lab Control Sample	119	112
LCSD 880-64769/2-A	Lab Control Sample Dup	112	114
MB 880-64769/5-A	Method Blank	78	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5455-1	TANK 5-W	80	85
890-5455-2	TANK 4-W	80	82
890-5457-A-1-F MS	Matrix Spike	82	72
890-5457-A-1-G MSD	Matrix Spike Duplicate	82	71
LCS 880-64788/2-A	Lab Control Sample	97	99
LCSD 880-64788/3-A	Lab Control Sample Dup	99	93
MB 880-64788/1-A	Method Blank	93	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64769/5-A

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/23 08:37	10/16/23 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	10/16/23 08:37	10/16/23 11:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/16/23 08:37	10/16/23 11:20	1

Lab Sample ID: LCS 880-64769/1-A

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09322		mg/Kg		93	70 - 130
Toluene	0.100	0.09263		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2221		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

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

Lab Sample ID: LCSD 880-64769/2-A

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09816		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.09206		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.09430		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2044		mg/Kg		102	70 - 130	8	35
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-5455-1 MS

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: TANK 5-W

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.1041		mg/Kg		104	70 - 130
Toluene	<0.00201	U	0.0998	0.1002		mg/Kg		100	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

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

Lab Sample ID: 890-5455-1 MS

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: TANK 5-W

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2264		mg/Kg		113	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1122		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-5455-1 MSD

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: TANK 5-W

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08916		mg/Kg		89	70 - 130	15	35
Toluene	<0.00201	U	0.100	0.08403		mg/Kg		84	70 - 130	18	35
Ethylbenzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130	19	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1859		mg/Kg		93	70 - 130	20	35
o-Xylene	<0.00201	U	0.100	0.09348		mg/Kg		93	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

Lab Sample ID: MB 880-64788/1-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/16/23 08:00	10/16/23 08:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/16/23 08:00	10/16/23 08:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/16/23 08:00	10/16/23 08:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	10/16/23 08:00	10/16/23 08:49	1
o-Terphenyl	98		70 - 130	10/16/23 08:00	10/16/23 08:49	1

Lab Sample ID: LCS 880-64788/2-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	881.8		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	915.4		mg/Kg		92	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

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

Lab Sample ID: LCS 880-64788/2-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64788

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-64788/3-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	866.4		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	877.5		mg/Kg		88	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-5457-A-1-F MS

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	734.8		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	991	703.9		mg/Kg		71	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-5457-A-1-G MSD

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	733.4		mg/Kg		71	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	991	712.2		mg/Kg		72	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	71		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64789/1-A

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/16/23 13:42	1

Lab Sample ID: LCS 880-64789/2-A

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-64789/3-A

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.7		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-34454-A-1-B MS

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10200	F1	5020	17030	F1	mg/Kg		136	90 - 110

Lab Sample ID: 880-34454-A-1-C MSD

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10200	F1	5020	17010	F1	mg/Kg		136	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

GC VOA

Analysis Batch: 64759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8021B	64769
890-5455-2	TANK 4-W	Total/NA	Solid	8021B	64769
MB 880-64769/5-A	Method Blank	Total/NA	Solid	8021B	64769
LCS 880-64769/1-A	Lab Control Sample	Total/NA	Solid	8021B	64769
LCSD 880-64769/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64769
890-5455-1 MS	TANK 5-W	Total/NA	Solid	8021B	64769
890-5455-1 MSD	TANK 5-W	Total/NA	Solid	8021B	64769

Prep Batch: 64769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	5035	
890-5455-2	TANK 4-W	Total/NA	Solid	5035	
MB 880-64769/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64769/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64769/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5455-1 MS	TANK 5-W	Total/NA	Solid	5035	
890-5455-1 MSD	TANK 5-W	Total/NA	Solid	5035	

Analysis Batch: 64829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	Total BTEX	
890-5455-2	TANK 4-W	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8015B NM	64788
890-5455-2	TANK 4-W	Total/NA	Solid	8015B NM	64788
MB 880-64788/1-A	Method Blank	Total/NA	Solid	8015B NM	64788
LCS 880-64788/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64788
LCSD 880-64788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64788
890-5457-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	64788
890-5457-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64788

Prep Batch: 64788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8015NM Prep	
890-5455-2	TANK 4-W	Total/NA	Solid	8015NM Prep	
MB 880-64788/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64788/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5457-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5457-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8015 NM	
890-5455-2	TANK 4-W	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

HPLC/IC

Leach Batch: 64789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Soluble	Solid	DI Leach	
890-5455-2	TANK 4-W	Soluble	Solid	DI Leach	
MB 880-64789/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64789/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64789/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34454-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34454-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Soluble	Solid	300.0	64789
890-5455-2	TANK 4-W	Soluble	Solid	300.0	64789
MB 880-64789/1-A	Method Blank	Soluble	Solid	300.0	64789
LCS 880-64789/2-A	Lab Control Sample	Soluble	Solid	300.0	64789
LCSD 880-64789/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64789
880-34454-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	64789
880-34454-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64789

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Client Sample ID: TANK 5-W

Date Collected: 10/12/23 12:28

Date Received: 10/13/23 12:46

Lab Sample ID: 890-5455-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	64769	10/16/23 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64759	10/16/23 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64829	10/16/23 13:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			64871	10/16/23 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64788	10/16/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64753	10/16/23 15:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64789	10/16/23 11:34	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64805	10/16/23 15:21	CH	EET MID

Client Sample ID: TANK 4-W

Date Collected: 10/12/23 10:49

Date Received: 10/13/23 12:46

Lab Sample ID: 890-5455-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64769	10/16/23 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64759	10/16/23 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64829	10/16/23 12:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			64871	10/16/23 15:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	64788	10/16/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64753	10/16/23 15:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64789	10/16/23 11:34	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64805	10/16/23 15:26	CH	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11 State

Job ID: 890-5455-1
SDG: KH 227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5455-1	TANK 5-W	Solid	10/12/23 12:28	10/13/23 12:46	4'
890-5455-2	TANK 4-W	Solid	10/12/23 10:49	10/13/23 12:46	6'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
Corpus Christi, TX (361) 585-5443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing



Work Order No:

www.xenco.com Page of

Project Manager:	Joseph Guenier	Bill to: (if different)	SPR
Company Name:	TERRACON	Company Name:	SPR
Address:	4518 W Pierce St	Address:	
City, State ZIP:	88220, Carlsbad NM	City, State ZIP:	
Phone:		Email:	

Project Name:	FolkM State	Turn Around		Pres. Code	
Project Number:	KH227025	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location:		Due Date:	48 hour		
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm			
P.O. #:		Temp Blank:	Yes No	Wet Ice:	Yes No
SAMPLE RECEIPT		Thermometer ID:	Yes No	Correction Factor:	Yes No
Samples Received Intact:		Yes No	N/A	Temperature Reading:	Yes No
Cooler Custody Seals:		Yes No	N/A	Corrected Temperature:	Yes No
Sample Custody Seals:		Yes No	N/A		
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
Tank 5 - W	Soil	10-12-23	12:28	4'	Grab	1	Chloride (EPA300)		None: NO	
Tank 4 - W	Soil	10-12-23	10:49	6'	Grab	1	TPH (8015)		Cool: Cool	
							BTEX (80218)		HCL: HC	
									H ₂ SO ₄ : H ₂	
									H ₃ PO ₄ : HP	
									NaHSO ₄ : NABIS	
									Na ₂ S ₂ O ₃ : NaSO ₃	
									Zn Acetate+NaOH: Zn	
									NaOH+Ascorbic Acid: SACP	

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCPL / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471				

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. [Signature]	[Signature]	10-13 12:46			
3. [Signature]					
6. [Signature]					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5455-1

SDG Number: KH 227025

Login Number: 5455

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5455-1

SDG Number: KH 227025

Login Number: 5455

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/16/23 08:35 AM

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



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

February 29, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/23/24 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 02/23/2024
 Reported: 02/29/2024
 Project Name: FOLK 11 BATTERY
 Project Number: KH227025
 Project Location: SPUR - EDDY CO

Sampling Date: 02/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TANK - 5 - E 9.5' (H240918-01)

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	02/28/2024	ND	2.27	114	2.00	1.11		
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	110	2.00	1.72		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.45	108	6.00	1.76		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	02/28/2024	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	02/27/2024	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	213	106	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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

Notes and Definitions

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

Cardinal Laboratories

*=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.

A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon Project Manager: Joseph Guesnier Address: 4518 W. Pierce Street City: Carlsbad State: NM Zip: 88220 Phone #: 806-507-7057 Fax #: Project #: KH247025 KH227025 Project Owner: Project Name: Ed Smith Water Facility Folk II Project Location: Eddy County Sampler Name: Gus Sanchez				BILL TO P.O. #: 810 Company: Spur Energy Partners LLC Attn: Kathy Purvis Address: 2407 Pecos Ave City: Artesia State: NM Zip: 88210 Phone #: 575-441-8619 Fax #:																																											
FOR LAB USE ONLY Lab I.D. H240918 Sample I.D. 1 Tank-S-E 9.5 (G)RAB OR (C)OMP. 9 # CONTAINERS 1 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">MATRIX</th> <th>PRESERV</th> <th>SAMPLING</th> </tr> <tr> <td>GROUNDWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>WASTEWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ACID/BASE:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ICE / COOL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> <td></td> </tr> </table>				MATRIX		PRESERV	SAMPLING	GROUNDWATER				WASTEWATER				SOIL				OIL				SLUDGE				OTHER :				ACID/BASE:				ICE / COOL				OTHER :				DATE 2-23-24 TIME 2:15 Chloride (EPA Method 4500) ✓ TPH Extended 8015 ✓ BTEX (EPA Method 8021B) ✓			
MATRIX		PRESERV	SAMPLING																																												
GROUNDWATER																																															
WASTEWATER																																															
SOIL																																															
OIL																																															
SLUDGE																																															
OTHER :																																															
ACID/BASE:																																															
ICE / COOL																																															
OTHER :																																															
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 analysis. 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.				REMARKS: Cost Center Number : 7010-7410																																											
Relinquished By: [Signature] Date: 2-23-24 Relinquished By: [Signature] Date: 2-23-24 Received By: [Signature] Date: 2-23-24 Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.com; Joseph.Guesnier@Terracon.com; Becky.Sue.Miller@Terracon.com;				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #: 113 Correction Factor: -0.5°C Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C																																											
Delivered By: (Circle One) <input type="checkbox"/> Observed Temp. °C 4.4 <input type="checkbox"/> Corrected Temp. °C Sampler - UPS - Bus - Other: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked BY: [Signature]				FORM-006 R 3.2 10/07/21																																											



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424
Generated 10/20/2023 9:29:04 AM

JOB DESCRIPTION

Folk 11
SDG NUMBER KH227025

JOB NUMBER

890-5469-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.
Released to Imaging: 8/1/2024 6:17:27 AM



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
10/20/2023 9:29:04 AM

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

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Laboratory Job ID: 890-5469-1
SDG: KH227025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	8
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Job ID: 890-5469-1

Laboratory: Eurofins Carlsbad

Narrative**Job Narrative
890-5469-1**

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

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

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

Receipt

The samples were received on 10/17/2023 8:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: TANK 1 -W (890-5469-1) and TANK 2 -W (890-5469-2).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-64913 and analytical batch 880-64935 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65041 and analytical batch 880-65018 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65018/31), (CCV 880-65018/47) and (CCV 880-65018/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-5474-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TANK 1 -W (890-5469-1) and TANK 2 -W (890-5469-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-65041 and analytical batch 880-65018 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-65041 and analytical batch 880-65018. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65038 and 880-65038

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Job ID: 890-5469-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

and analytical batch 880-65042 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: TANK 2 -W (890-5469-2), (890-5474-A-10-A), (890-5474-A-10-B MS) and (890-5474-A-10-C MSD).

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Client Sample ID: TANK 1 -W

Lab Sample ID: 890-5469-1

Date Collected: 10/16/23 09:58

Matrix: Solid

Date Received: 10/17/23 08:27

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/18/23 11:00	10/18/23 13:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/18/23 11:00	10/18/23 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/18/23 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.1		50.2		mg/Kg			10/20/23 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		10/19/23 12:14	10/20/23 03:14	1
Diesel Range Organics (Over C10-C28)	55.1		50.2		mg/Kg		10/19/23 12:14	10/20/23 03:14	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/19/23 12:14	10/20/23 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	10/19/23 12:14	10/20/23 03:14	1
o-Terphenyl	115		70 - 130	10/19/23 12:14	10/20/23 03:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		4.99		mg/Kg			10/19/23 19:02	1

Client Sample ID: TANK 2 -W

Lab Sample ID: 890-5469-2

Date Collected: 10/16/23 15:13

Matrix: Solid

Date Received: 10/17/23 08:27

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/18/23 11:00	10/18/23 14:08	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Client Sample ID: TANK 2 -W

Lab Sample ID: 890-5469-2

Date Collected: 10/16/23 15:13

Matrix: Solid

Date Received: 10/17/23 08:27

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	10/18/23 11:00	10/18/23 14:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/18/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.0		49.6		mg/Kg			10/20/23 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/19/23 12:14	10/20/23 03:36	1
Diesel Range Organics (Over C10-C28)	61.0		49.6		mg/Kg		10/19/23 12:14	10/20/23 03:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/19/23 12:14	10/20/23 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				10/19/23 12:14	10/20/23 03:36	1
o-Terphenyl	119		70 - 130				10/19/23 12:14	10/20/23 03:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.96		mg/Kg			10/19/23 19:07	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-34579-A-1-B MS	Matrix Spike	99	110
880-34579-A-1-C MSD	Matrix Spike Duplicate	105	118
890-5469-1	TANK 1 -W	92	106
890-5469-2	TANK 2 -W	96	101
LCS 880-64913/1-A	Lab Control Sample	97	108
LCSD 880-64913/2-A	Lab Control Sample Dup	97	112
MB 880-64913/5-B	Method Blank	113	141 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5469-1	TANK 1 -W	135 S1+	115
890-5469-2	TANK 2 -W	138 S1+	119
890-5474-A-1-E MS	Matrix Spike	129	90
890-5474-A-1-F MSD	Matrix Spike Duplicate	120	94
LCS 880-65041/2-A	Lab Control Sample	92	87
LCSD 880-65041/3-A	Lab Control Sample Dup	83	74
MB 880-65041/1-A	Method Blank	198 S1+	168 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64913/5-B							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64935							Prep Batch: 64913		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/18/23 09:25	10/18/23 12:15	1
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130				10/18/23 09:25	10/18/23 12:15	1

Lab Sample ID: LCS 880-64913/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64935							Prep Batch: 64913		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1083		mg/Kg		108	70 - 130	
Toluene		0.100	0.09634		mg/Kg		96	70 - 130	
Ethylbenzene		0.100	0.09209		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene		0.200	0.2067		mg/Kg		103	70 - 130	
o-Xylene		0.100	0.09873		mg/Kg		99	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: LCSD 880-64913/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 64935							Prep Batch: 64913			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1135		mg/Kg		114	70 - 130	5	35
Toluene		0.100	0.09325		mg/Kg		93	70 - 130	3	35
Ethylbenzene		0.100	0.08243		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene		0.200	0.2035		mg/Kg		102	70 - 130	2	35
o-Xylene		0.100	0.1007		mg/Kg		101	70 - 130	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	97		70 - 130							
1,4-Difluorobenzene (Surr)	112		70 - 130							

Lab Sample ID: 880-34579-A-1-B MS							Client Sample ID: Matrix Spike		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64935							Prep Batch: 64913		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.1074		mg/Kg		108	70 - 130
Toluene	<0.00198	U	0.0998	0.08975		mg/Kg		90	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

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

Lab Sample ID: 880-34579-A-1-B MS
Matrix: Solid
Analysis Batch: 64935

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0998	0.09101		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2047		mg/Kg		103	70 - 130
o-Xylene	<0.00198	U	0.0998	0.09593		mg/Kg		96	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 880-34579-A-1-C MSD
Matrix: Solid
Analysis Batch: 64935

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1053		mg/Kg		105	70 - 130	2	35
Toluene	<0.00198	U	0.100	0.08351		mg/Kg		83	70 - 130	7	35
Ethylbenzene	<0.00198	U	0.100	0.08399		mg/Kg		84	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.1931		mg/Kg		96	70 - 130	6	35
o-Xylene	<0.00198	U	0.100	0.09111		mg/Kg		90	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	118		70 - 130								

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

Lab Sample ID: MB 880-65041/1-A
Matrix: Solid
Analysis Batch: 65018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/19/23 12:14	10/19/23 19:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/23 12:14	10/19/23 19:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/23 12:14	10/19/23 19:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	198	S1+	70 - 130						
o-Terphenyl	168	S1+	70 - 130						

Lab Sample ID: LCS 880-65041/2-A
Matrix: Solid
Analysis Batch: 65018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	977.6		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

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

Lab Sample ID: LCS 880-65041/2-A

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65041

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-65041/3-A

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	927.1		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-5474-A-1-E MS

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<81.0	U F1 F2	1300	1174		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<81.0	U F1 F2	1300	1559		mg/Kg		118	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-5474-A-1-F MSD

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<81.0	U F1 F2	1300	116.4	F1 F2	mg/Kg		5	70 - 130	164	20
Diesel Range Organics (Over C10-C28)	<81.0	U F1 F2	1300	<64.9	U F1 F2	mg/Kg		-0.1	70 - 130	194	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	94		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65038/1-A										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65042											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			10/19/23 12:49	1		

Lab Sample ID: LCS 880-65038/2-A										Client Sample ID: Lab Control Sample	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65042											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-65038/3-A										Client Sample ID: Lab Control Sample Dup	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65042											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-5474-A-10-B MS										Client Sample ID: Matrix Spike	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65042											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	188	F1	250	404.9	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 890-5474-A-10-C MSD										Client Sample ID: Matrix Spike Duplicate	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65042											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	188	F1	250	403.8	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

GC VOA

Prep Batch: 64913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	5035	
890-5469-2	TANK 2 -W	Total/NA	Solid	5035	
MB 880-64913/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-64913/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64913/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34579-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34579-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8021B	64913
890-5469-2	TANK 2 -W	Total/NA	Solid	8021B	64913
MB 880-64913/5-B	Method Blank	Total/NA	Solid	8021B	64913
LCS 880-64913/1-A	Lab Control Sample	Total/NA	Solid	8021B	64913
LCSD 880-64913/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64913
880-34579-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	64913
880-34579-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64913

Analysis Batch: 65091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	Total BTEX	
890-5469-2	TANK 2 -W	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 65018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8015B NM	65041
890-5469-2	TANK 2 -W	Total/NA	Solid	8015B NM	65041
MB 880-65041/1-A	Method Blank	Total/NA	Solid	8015B NM	65041
LCS 880-65041/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65041
LCSD 880-65041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65041
890-5474-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	65041
890-5474-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65041

Prep Batch: 65041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8015NM Prep	
890-5469-2	TANK 2 -W	Total/NA	Solid	8015NM Prep	
MB 880-65041/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65041/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5474-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5474-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8015 NM	
890-5469-2	TANK 2 -W	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

HPLC/IC

Leach Batch: 65038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Soluble	Solid	DI Leach	
890-5469-2	TANK 2 -W	Soluble	Solid	DI Leach	
MB 880-65038/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65038/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65038/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5474-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5474-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 65042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Soluble	Solid	300.0	65038
890-5469-2	TANK 2 -W	Soluble	Solid	300.0	65038
MB 880-65038/1-A	Method Blank	Soluble	Solid	300.0	65038
LCS 880-65038/2-A	Lab Control Sample	Soluble	Solid	300.0	65038
LCSD 880-65038/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65038
890-5474-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	65038
890-5474-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	65038

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Client Sample ID: TANK 1 -W
Date Collected: 10/16/23 09:58
Date Received: 10/17/23 08:27

Lab Sample ID: 890-5469-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64913	10/18/23 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64935	10/18/23 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65091	10/18/23 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			65141	10/20/23 03:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	65041	10/19/23 12:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65018	10/20/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65038	10/19/23 17:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65042	10/19/23 19:02	CH	EET MID

Client Sample ID: TANK 2 -W
Date Collected: 10/16/23 15:13
Date Received: 10/17/23 08:27

Lab Sample ID: 890-5469-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64913	10/18/23 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64935	10/18/23 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65091	10/18/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			65141	10/20/23 03:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65041	10/19/23 12:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65018	10/20/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65038	10/19/23 17:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65042	10/19/23 19:07	CH	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5469-1
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5469-1	TANK 1 -W	Solid	10/16/23 09:58	10/17/23 08:27	6
890-5469-2	TANK 2 -W	Solid	10/16/23 15:13	10/17/23 08:27	6

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Midland, TX (432) 794-5440, San Antonio, TX (210) 509-3333,
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com Page _____ of _____

Project Manager:	Joseph Guesnier	Bill to: (if different)	Spur
Company Name:	Terracon	Company Name:	
Address:	4526 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140	Email:	Gus.Sanchez@terracon.com, Travis.Casey@terracon.com, Joseph.Guesnier@terracon.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDO <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="text"/>

[illegible]

Total	2007 / 6010	2008 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s)	and Metal(s) to be analyzed		TCLP/SPLP	6010	:	8RCRA	5b	As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U			Hg:	1631 / 245.1 / 7470 / 7471							

Note: Signature of this document and reimbursement of sample collection from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.


	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>[Signature]</i>	<i>[Signature]</i>	08/17 8:27			
2						
3						
4						
5						

Revised Date: 08/25/2020 Rev. 1020.2

Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5469-1

SDG Number: KH227025

Login Number: 5469

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5469-1

SDG Number: KH227025

Login Number: 5469
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 10/18/23 12:44 PM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 10/23/2023 10:29:01 PM

JOB DESCRIPTION

Folk 11
SDG NUMBER KH227025

JOB NUMBER

890-5489-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.
Released to Imaging: 8/7/2024 6:17:27 AM

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
10/23/2023 10:29:01 PM

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

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Laboratory Job ID: 890-5489-1
SDG: KH227025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Job ID: 890-5489-1

Laboratory: Eurofins Carlsbad

Narrative**Job Narrative
890-5489-1**

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

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

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

Receipt

The samples were received on 10/19/2023 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: A1, B1-S-SW (890-5489-1), A8 - W-SW (890-5489-2) and A1, B1-FS (890-5489-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-65335/5-A) and (880-34727-A-11-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65276 and analytical batch 880-65282 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: A1, B1-S-SW (890-5489-1) and A8 - W-SW (890-5489-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65282/20), (CCV 880-65282/31) and (CCV 880-65282/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Client Sample ID: A1, B1-S-SW

Lab Sample ID: 890-5489-1

Date Collected: 10/18/23 11:03

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/23/23 09:14	10/23/23 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/23/23 09:14	10/23/23 12:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/23/23 09:14	10/23/23 12:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/23/23 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.6		50.5		mg/Kg			10/22/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 16:44	1
Diesel Range Organics (Over C10-C28)	63.6		50.5		mg/Kg		10/21/23 16:11	10/22/23 16:44	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	10/21/23 16:11	10/22/23 16:44	1
o-Terphenyl	119		70 - 130	10/21/23 16:11	10/22/23 16:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.03		mg/Kg			10/20/23 13:36	1

Client Sample ID: A8 - W-SW

Lab Sample ID: 890-5489-2

Date Collected: 10/18/23 10:54

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/23/23 09:14	10/23/23 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/23/23 09:14	10/23/23 12:45	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Client Sample ID: A8 - W-SW

Lab Sample ID: 890-5489-2

Date Collected: 10/18/23 10:54

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 0-2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	10/23/23 09:14	10/23/23 12:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/23/23 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1310		50.0		mg/Kg			10/22/23 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 16:22	1
Diesel Range Organics (Over C10-C28)	1310		50.0		mg/Kg		10/21/23 16:11	10/22/23 16:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				10/21/23 16:11	10/22/23 16:22	1
o-Terphenyl	109		70 - 130				10/21/23 16:11	10/22/23 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.99		mg/Kg			10/20/23 13:41	1

Client Sample ID: A1, B1-FS

Lab Sample ID: 890-5489-3

Date Collected: 10/18/23 12:53

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/23/23 09:14	10/23/23 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/23/23 09:14	10/23/23 13:05	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/23/23 09:14	10/23/23 13:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/23/23 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/22/23 17:06	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Client Sample ID: A1, B1-FS
Date Collected: 10/18/23 12:53
Date Received: 10/19/23 10:04
Sample Depth: 4'

Lab Sample ID: 890-5489-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 17:06	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 17:06	1	
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 17:06	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	122		70 - 130				10/21/23 16:11	10/22/23 17:06	1	
o-Terphenyl	109		70 - 130				10/21/23 16:11	10/22/23 17:06	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	238		5.04		mg/Kg			10/20/23 13:58	1	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5489-1	A1, B1-S-SW	88	79
890-5489-2	A8 - W-SW	89	83
890-5489-3	A1, B1-FS	85	82
LCS 880-65335/1-A	Lab Control Sample	107	111
LCSD 880-65335/2-A	Lab Control Sample Dup	105	114
MB 880-65335/5-A	Method Blank	66 S1-	101
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5489-1	A1, B1-S-SW	140 S1+	119
890-5489-2	A8 - W-SW	132 S1+	109
890-5489-3	A1, B1-FS	122	109
LCS 880-65276/2-A	Lab Control Sample	110	128
LCSD 880-65276/3-A	Lab Control Sample Dup	108	120
MB 880-65276/1-A	Method Blank	194 S1+	188 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65335/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 65321							Prep Batch: 65335		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130				10/23/23 09:14	10/23/23 11:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/23/23 09:14	10/23/23 11:42	1

Lab Sample ID: LCS 880-65335/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 65321							Prep Batch: 65335		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1038		mg/Kg		104	70 - 130		
Toluene	0.100	0.1094		mg/Kg		109	70 - 130		
Ethylbenzene	0.100	0.1078		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene	0.200	0.2334		mg/Kg		117	70 - 130		
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	111		70 - 130						

Lab Sample ID: LCSD 880-65335/2-A							Client Sample ID: Lab Control Sample Dup				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 65321							Prep Batch: 65335				
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD		
							Limits		RPD	Limit	
Benzene	0.100	0.1087		mg/Kg		109	70 - 130		5	35	
Toluene	0.100	0.1097		mg/Kg		110	70 - 130		0	35	
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130		0	35	
m-Xylene & p-Xylene	0.200	0.2300		mg/Kg		115	70 - 130		1	35	
o-Xylene	0.100	0.1100		mg/Kg		110	70 - 130		1	35	
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	114		70 - 130								

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

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

Lab Sample ID: MB 880-65276/1-A

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130				10/21/23 16:11	10/22/23 08:17	1
o-Terphenyl	188	S1+	70 - 130				10/21/23 16:11	10/22/23 08:17	1

Lab Sample ID: LCS 880-65276/2-A

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	981.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	956.4		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	128		70 - 130				

Lab Sample ID: LCSD 880-65276/3-A

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	975.5		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	910.9		mg/Kg		91	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	120		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65175/1-A

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/20/23 12:06	1

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-65175/2-A

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-65175/3-A

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-5489-2 MS

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: A8 - W-SW

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	125		250	387.5		mg/Kg		105	90 - 110		

Lab Sample ID: 890-5489-2 MSD

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: A8 - W-SW

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125		250	386.3		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

GC VOA

Analysis Batch: 65321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8021B	65335
890-5489-2	A8 - W-SW	Total/NA	Solid	8021B	65335
890-5489-3	A1, B1-FS	Total/NA	Solid	8021B	65335
MB 880-65335/5-A	Method Blank	Total/NA	Solid	8021B	65335
LCS 880-65335/1-A	Lab Control Sample	Total/NA	Solid	8021B	65335
LCSD 880-65335/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65335

Prep Batch: 65335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	5035	
890-5489-2	A8 - W-SW	Total/NA	Solid	5035	
890-5489-3	A1, B1-FS	Total/NA	Solid	5035	
MB 880-65335/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65335/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65335/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 65410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	Total BTEX	
890-5489-2	A8 - W-SW	Total/NA	Solid	Total BTEX	
890-5489-3	A1, B1-FS	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 65276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8015NM Prep	
890-5489-2	A8 - W-SW	Total/NA	Solid	8015NM Prep	
890-5489-3	A1, B1-FS	Total/NA	Solid	8015NM Prep	
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8015B NM	65276
890-5489-2	A8 - W-SW	Total/NA	Solid	8015B NM	65276
890-5489-3	A1, B1-FS	Total/NA	Solid	8015B NM	65276
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015B NM	65276
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65276
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65276

Analysis Batch: 65375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8015 NM	
890-5489-2	A8 - W-SW	Total/NA	Solid	8015 NM	
890-5489-3	A1, B1-FS	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

HPLC/IC

Leach Batch: 65175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Soluble	Solid	DI Leach	
890-5489-2	A8 - W-SW	Soluble	Solid	DI Leach	
890-5489-3	A1, B1-FS	Soluble	Solid	DI Leach	
MB 880-65175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65175/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5489-2 MS	A8 - W-SW	Soluble	Solid	DI Leach	
890-5489-2 MSD	A8 - W-SW	Soluble	Solid	DI Leach	

Analysis Batch: 65226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Soluble	Solid	300.0	65175
890-5489-2	A8 - W-SW	Soluble	Solid	300.0	65175
890-5489-3	A1, B1-FS	Soluble	Solid	300.0	65175
MB 880-65175/1-A	Method Blank	Soluble	Solid	300.0	65175
LCS 880-65175/2-A	Lab Control Sample	Soluble	Solid	300.0	65175
LCSD 880-65175/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65175
890-5489-2 MS	A8 - W-SW	Soluble	Solid	300.0	65175
890-5489-2 MSD	A8 - W-SW	Soluble	Solid	300.0	65175

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Client Sample ID: A1, B1-S-SW
Date Collected: 10/18/23 11:03
Date Received: 10/19/23 10:04

Lab Sample ID: 890-5489-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65410	10/23/23 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			65375	10/22/23 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 16:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65175	10/20/23 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65226	10/20/23 13:36	CH	EET MID

Client Sample ID: A8 - W-SW
Date Collected: 10/18/23 10:54
Date Received: 10/19/23 10:04

Lab Sample ID: 890-5489-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65410	10/23/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			65375	10/22/23 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 16:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65175	10/20/23 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65226	10/20/23 13:41	CH	EET MID

Client Sample ID: A1, B1-FS
Date Collected: 10/18/23 12:53
Date Received: 10/19/23 10:04

Lab Sample ID: 890-5489-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65410	10/23/23 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			65375	10/22/23 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 17:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65175	10/20/23 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65226	10/20/23 13:58	CH	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5489-1
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5489-1	A1, B1-S-SW	Solid	10/18/23 11:03	10/19/23 10:04	0-4'
890-5489-2	A8 - W-SW	Solid	10/18/23 10:54	10/19/23 10:04	0-2'
890-5489-3	A1, B1-FS	Solid	10/18/23 12:53	10/19/23 10:04	4'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

Work Order No.:

Midland, TX (409) 705-5440, San Antonio, TX (210) 505-5334

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Xenco

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

www.xenco.com Page of

Project Manager: Joseph Guesnier	Bill to: (if different)	Spur
Company Name: Terracon	Company Name:	
Address: 4526 W. Pierce St	Address:	
City, State ZIP: Carlsbad NM, 88220	City, State ZIP:	
Phone: (806)-300-0140	Email: Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.com; Joseph.Guesnier@terracon.com	

Project Name: Folk 11		Turn Around		Prio. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number: KH227025		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush						None: NO DI Water: H ₂ O	
Project Location: Gus Sanchez		Due Date: 48 hours		TAT starts the day received by the lab, if received by 4:30pm				Cool: Cool MeOH: Me	
Sampler's Name: Gus Sanchez		Temp Blank: Yes No		Thermometer ID: TMM007				HCL: HC HNO ₃ : HN	
PO #:		Cooler Custody Seals: Yes No		Correction Factor: -0.2				H ₂ SO ₄ : H ₂	
SAMPLE RECEIPT		Temp Blank: Yes No		Temperature Reading: -4.4				H ₃ PO ₄ : HP	
Samples Received Intact: Yes No		Thermometer ID: TMM007		Corrected Temperature: -4.6				NaHSO ₄ : NABIS	
Cooler Custody Seals: Yes No		N/A		Temperature Reading: -4.4				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals: Yes No		N/A		Corrected Temperature: -4.6				Zn Acetate+NaOH: Zn	
Total Containers:								NaOH+Ascorbic Acid: SACP	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)
A1, B1 - S - SW	Soil	10-18-23	11:03	0-4'	Comp 1	1		X	X	X
A8 - W - SW	Soil	10-18-23	10:54	0-2'	Comp 1	1		X	X	X
A1, B1 - FS	Soil	10-18-23	12:53	4'	Comp 1	1		X	X	X

Total 2007 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1. <i>[Signature]</i>		10/19		10:04	
3. <i>[Signature]</i>					
5. <i>[Signature]</i>					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5489-1

SDG Number: KH227025

Login Number: 5489

List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5489-1

SDG Number: KH227025

Login Number: 5489

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/20/23 11:02 AM

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



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 10/25/2023 10:51:41 AM

JOB DESCRIPTION

Folk 11
SDG NUMBER KH227025

JOB NUMBER

890-5500-1

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
10/25/2023 10:51:41 AM

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

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Laboratory Job ID: 890-5500-1
SDG: KH227025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	8
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	17
Lab Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Job ID: 890-5500-1

Laboratory: Eurofins Carlsbad

Narrative**Job Narrative
890-5500-1**

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

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

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

Receipt

The samples were received on 10/20/2023 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: TANK 4 - E (890-5500-1), TANK 3 - E (890-5500-2) and B12 - FS (890-5500-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65275 and analytical batch 880-65322 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65447 and analytical batch 880-65444 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B12 - FS (890-5500-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65120 and analytical batch 880-65444 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: TANK 3 - E (890-5500-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: B12 - FS (890-5500-3). Elevated reporting limits (RLs) are provided.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: TANK 3 - E (890-5500-2). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-65295 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-65295/58).

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Job ID: 890-5500-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Client Sample ID: TANK 4 - E

Lab Sample ID: 890-5500-1

Date Collected: 10/19/23 11:16

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/23/23 11:00	10/23/23 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/23/23 11:00	10/23/23 20:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/23/23 11:00	10/23/23 20:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/23/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4840		250		mg/Kg			10/23/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		10/23/23 09:31	10/23/23 17:02	5
Diesel Range Organics (Over C10-C28)	4840		250		mg/Kg		10/23/23 09:31	10/23/23 17:02	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		10/23/23 09:31	10/23/23 17:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/23/23 09:31	10/23/23 17:02	5
o-Terphenyl	129		70 - 130	10/23/23 09:31	10/23/23 17:02	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		4.97		mg/Kg			10/24/23 00:28	1

Client Sample ID: TANK 3 - E

Lab Sample ID: 890-5500-2

Date Collected: 10/19/23 15:50

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0800		0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
Toluene	<0.0201	U	0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
Xylenes, Total	<0.0402	U	0.0402		mg/Kg		10/23/23 14:42	10/24/23 16:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	44	S1-	70 - 130	10/23/23 14:42	10/24/23 16:17	10

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Client Sample ID: TANK 3 - E

Lab Sample ID: 890-5500-2

Date Collected: 10/19/23 15:50

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	10/23/23 14:42	10/24/23 16:17	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0800		0.0402		mg/Kg			10/24/23 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	463		50.3		mg/Kg			10/23/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/23/23 09:31	10/23/23 17:24	1
Diesel Range Organics (Over C10-C28)	463		50.3		mg/Kg		10/23/23 09:31	10/23/23 17:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/23/23 09:31	10/23/23 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/23/23 09:31	10/23/23 17:24	1
o-Terphenyl	87		70 - 130				10/23/23 09:31	10/23/23 17:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.9		5.04		mg/Kg			10/24/23 00:35	1

Client Sample ID: B12 - FS

Lab Sample ID: 890-5500-3

Date Collected: 10/19/23 12:27

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
Toluene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
Ethylbenzene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
m-Xylene & p-Xylene	<0.101	U	0.101		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
o-Xylene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
Xylenes, Total	<0.101	U	0.101		mg/Kg		10/24/23 09:04	10/25/23 07:16	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	10/24/23 09:04	10/25/23 07:16	25
1,4-Difluorobenzene (Surr)	91		70 - 130	10/24/23 09:04	10/25/23 07:16	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101		mg/Kg			10/25/23 07:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	120		50.1		mg/Kg			10/23/23 19:10	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Client Sample ID: B12 - FS
Date Collected: 10/19/23 12:27
Date Received: 10/20/23 09:52
Sample Depth: 4'

Lab Sample ID: 890-5500-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/23/23 09:31	10/23/23 19:10	1	
Diesel Range Organics (Over C10-C28)	120		50.1		mg/Kg		10/23/23 09:31	10/23/23 19:10	1	
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/23/23 09:31	10/23/23 19:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	79		70 - 130				10/23/23 09:31	10/23/23 19:10	1	
o-Terphenyl	89		70 - 130				10/23/23 09:31	10/23/23 19:10	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	47.7		4.96		mg/Kg			10/24/23 00:41	1	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5500-1	TANK 4 - E	91	92
890-5500-2	TANK 3 - E	44 S1-	105
890-5500-3	B12 - FS	136 S1+	91
LCS 880-65275/1-A	Lab Control Sample	100	100
LCS 880-65370/1-A	Lab Control Sample	123	112
LCS 880-65447/1-A	Lab Control Sample	79	117
LCSD 880-65275/2-A	Lab Control Sample Dup	106	101
LCSD 880-65370/2-A	Lab Control Sample Dup	113	104
LCSD 880-65447/2-A	Lab Control Sample Dup	84	112
MB 880-65120/5-A	Method Blank	115	144 S1+
MB 880-65275/5-A	Method Blank	105	132 S1+
MB 880-65370/5-A	Method Blank	72	97
MB 880-65447/5-A	Method Blank	109	157 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5500-1	TANK 4 - E	105	129
890-5500-2	TANK 3 - E	78	87
890-5500-3	B12 - FS	79	89
LCS 880-65337/2-A	Lab Control Sample	90	100
LCSD 880-65337/3-A	Lab Control Sample Dup	89	97
MB 880-65337/1-A	Method Blank	107	126
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65120/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 65444							Prep Batch: 65120		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				10/19/23 17:44	10/24/23 11:34	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130				10/19/23 17:44	10/24/23 11:34	1

Lab Sample ID: MB 880-65275/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 65322							Prep Batch: 65275		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/21/23 15:12	10/23/23 12:11	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130				10/21/23 15:12	10/23/23 12:11	1

Lab Sample ID: LCS 880-65275/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 65322							Prep Batch: 65275		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.08759		mg/Kg		88	70 - 130		
Toluene	0.100	0.07851		mg/Kg		79	70 - 130		
Ethylbenzene	0.100	0.08016		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene	0.200	0.1842		mg/Kg		92	70 - 130		
o-Xylene	0.100	0.08963		mg/Kg		90	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: LCSD 880-65275/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 65322							Prep Batch: 65275		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09701		mg/Kg		97	70 - 130	10	35

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

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

Lab Sample ID: LCSD 880-65275/2-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.08247		mg/Kg		82	70 - 130	5		35
Ethylbenzene	0.100	0.08707		mg/Kg		87	70 - 130	8		35
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130	5		35
o-Xylene	0.100	0.09524		mg/Kg		95	70 - 130	6		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-65370/5-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65370

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	72		70 - 130	10/23/23 14:42	10/24/23 11:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/23/23 14:42	10/24/23 11:07	1

Lab Sample ID: LCS 880-65370/1-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Benzene	0.100	0.08870		mg/Kg		89	70 - 130	
Toluene	0.100	0.09900		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2385		mg/Kg		119	70 - 130	
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-65370/2-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzene	0.100	0.09201		mg/Kg		92	70 - 130	4		35
Toluene	0.100	0.09626		mg/Kg		96	70 - 130	3		35
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130	13		35

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

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

Lab Sample ID: LCSD 880-65370/2-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130	10		35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	10		35
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	113		70 - 130							
1,4-Difluorobenzene (Surr)	104		70 - 130							

Lab Sample ID: MB 880-65447/5-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65447

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
		MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130	10/24/23 09:04		10/24/23 23:10		1	
1,4-Difluorobenzene (Surr)	157	S1+	70 - 130	10/24/23 09:04		10/24/23 23:10		1	

Lab Sample ID: LCS 880-65447/1-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzene	0.100	0.09820		mg/Kg		98	70 - 130			
Toluene	0.100	0.08016		mg/Kg		80	70 - 130			
Ethylbenzene	0.100	0.07170		mg/Kg		72	70 - 130			
m-Xylene & p-Xylene	0.200	0.1674		mg/Kg		84	70 - 130			
o-Xylene	0.100	0.08039		mg/Kg		80	70 - 130			
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	79		70 - 130							
1,4-Difluorobenzene (Surr)	117		70 - 130							

Lab Sample ID: LCSD 880-65447/2-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	12		35
Toluene	0.100	0.09239		mg/Kg		92	70 - 130	14		35
Ethylbenzene	0.100	0.07910		mg/Kg		79	70 - 130	10		35
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130	15		35
o-Xylene	0.100	0.09501		mg/Kg		95	70 - 130	17		35

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-65337/1-A

Matrix: Solid

Analysis Batch: 65295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65337

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/23/23 07:31	10/23/23 07:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/23/23 07:31	10/23/23 07:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/23/23 07:31	10/23/23 07:59	1
Surrogate	MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	107		70 - 130				10/23/23 07:31	10/23/23 07:59	1
o-Terphenyl	126		70 - 130				10/23/23 07:31	10/23/23 07:59	1

Lab Sample ID: LCS 880-65337/2-A

Matrix: Solid

Analysis Batch: 65295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	843.5		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	843.8		mg/Kg		84	70 - 130
Surrogate	LCS		Limits				
	%Recovery	Qualifier					
1-Chlorooctane	90		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-65337/3-A

Matrix: Solid

Analysis Batch: 65295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	862.0		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	865.3		mg/Kg		87	70 - 130	3	20
Surrogate	LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	89		70 - 130						
o-Terphenyl	97		70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65323/1-A										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65465											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			10/23/23 21:28	1		
Lab Sample ID: LCS 880-65323/2-A										Client Sample ID: Lab Control Sample	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65465											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.6		mg/Kg		96	90 - 110		
Lab Sample ID: LCSD 880-65323/3-A										Client Sample ID: Lab Control Sample Dup	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 65465											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.9		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

GC VOA

Prep Batch: 65120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65120/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	5035	
MB 880-65275/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65275/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65275/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 65322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8021B	65275
MB 880-65275/5-A	Method Blank	Total/NA	Solid	8021B	65275
LCS 880-65275/1-A	Lab Control Sample	Total/NA	Solid	8021B	65275
LCSD 880-65275/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65275

Prep Batch: 65370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-2	TANK 3 - E	Total/NA	Solid	5035	
MB 880-65370/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 65431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	Total BTEX	
890-5500-2	TANK 3 - E	Total/NA	Solid	Total BTEX	
890-5500-3	B12 - FS	Total/NA	Solid	Total BTEX	

Analysis Batch: 65442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-2	TANK 3 - E	Total/NA	Solid	8021B	65370
MB 880-65370/5-A	Method Blank	Total/NA	Solid	8021B	65370
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	8021B	65370
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65370

Analysis Batch: 65444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-3	B12 - FS	Total/NA	Solid	8021B	65447
MB 880-65120/5-A	Method Blank	Total/NA	Solid	8021B	65120
MB 880-65447/5-A	Method Blank	Total/NA	Solid	8021B	65447
LCS 880-65447/1-A	Lab Control Sample	Total/NA	Solid	8021B	65447
LCSD 880-65447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65447

Prep Batch: 65447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-3	B12 - FS	Total/NA	Solid	5035	
MB 880-65447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

GC Semi VOA

Analysis Batch: 65295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8015B NM	65337
890-5500-2	TANK 3 - E	Total/NA	Solid	8015B NM	65337
890-5500-3	B12 - FS	Total/NA	Solid	8015B NM	65337
MB 880-65337/1-A	Method Blank	Total/NA	Solid	8015B NM	65337
LCS 880-65337/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65337
LCSD 880-65337/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65337

Prep Batch: 65337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8015NM Prep	
890-5500-2	TANK 3 - E	Total/NA	Solid	8015NM Prep	
890-5500-3	B12 - FS	Total/NA	Solid	8015NM Prep	
MB 880-65337/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65337/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65337/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8015 NM	
890-5500-2	TANK 3 - E	Total/NA	Solid	8015 NM	
890-5500-3	B12 - FS	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Soluble	Solid	DI Leach	
890-5500-2	TANK 3 - E	Soluble	Solid	DI Leach	
890-5500-3	B12 - FS	Soluble	Solid	DI Leach	
MB 880-65323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 65465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Soluble	Solid	300.0	65323
890-5500-2	TANK 3 - E	Soluble	Solid	300.0	65323
890-5500-3	B12 - FS	Soluble	Solid	300.0	65323
MB 880-65323/1-A	Method Blank	Soluble	Solid	300.0	65323
LCS 880-65323/2-A	Lab Control Sample	Soluble	Solid	300.0	65323
LCSD 880-65323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65323

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Client Sample ID: TANK 4 - E

Lab Sample ID: 890-5500-1

Date Collected: 10/19/23 11:16

Matrix: Solid

Date Received: 10/20/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65275	10/23/23 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 20:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65431	10/23/23 20:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			65432	10/23/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65337	10/23/23 09:31	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	65295	10/23/23 17:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:28	CH	EET MID

Client Sample ID: TANK 3 - E

Lab Sample ID: 890-5500-2

Date Collected: 10/19/23 15:50

Matrix: Solid

Date Received: 10/20/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	65442	10/24/23 16:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65431	10/24/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			65432	10/23/23 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65337	10/23/23 09:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65295	10/23/23 17:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:35	CH	EET MID

Client Sample ID: B12 - FS

Lab Sample ID: 890-5500-3

Date Collected: 10/19/23 12:27

Matrix: Solid

Date Received: 10/20/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	65447	10/24/23 09:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	65444	10/25/23 07:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65431	10/25/23 07:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			65432	10/23/23 19:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	65337	10/23/23 09:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65295	10/23/23 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:41	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5500-1
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5500-1	TANK 4 - E	Solid	10/19/23 11:16	10/20/23 09:52	6'
890-5500-2	TANK 3 - E	Solid	10/19/23 15:50	10/20/23 09:52	3'
890-5500-3	B12 - FS	Solid	10/19/23 12:27	10/20/23 09:52	4'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



eurofins

Environment Testing

Женко

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Midland, TX (432) 704-5440 San Antonio, TX (210) 589-3334

FI 0-2-2 TV (016) 505 3443 lubbook TV (806) 704 1306

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

~~Work Order No.:~~

Page _____ of _____
www.xenco.com[illegible]

	Total	200.7 / 6010	200.8 / 6020:	
8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn			
TCRIP / SPI P 6010 - 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 17470 / 17471		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco does not warrant the accuracy of results. A minimum charge of \$95.00 per sample applies. Samples must be received at least 7 business days before analysis. Results are available within 5-7 business days. A fee of \$50.00 per sample applies for each additional day of delay. A fee of \$50.00 per sample applies for each additional day of delay. A fee of \$50.00 per sample applies for each additional day of delay.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10/20 952			
2						
3						
4						
5						
6						

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5500-1

SDG Number: KH227025

Login Number: 5500

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5500-1

SDG Number: KH227025

Login Number: 5500
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 10/23/23 09:18 AM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
2526 W Pierce Street
Carlsbad, New Mexico 88220

Generated 11/6/2023 2:33:25 PM

JOB DESCRIPTION

Folk 11
SDG NUMBER KH227025

JOB NUMBER

890-5556-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
11/6/2023 2:33:25 PM

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

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Laboratory Job ID: 890-5556-1
SDG: KH227025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	8
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	18
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Job ID: 890-5556-1

Laboratory: Eurofins Carlsbad

Narrative**Job Narrative
890-5556-1**

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

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

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

Receipt

The samples were received on 11/2/2023 12:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: c12, c13, - ne - sw (890-5556-1), c13 - fs (890-5556-2) and exc. A12 (890-5556-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66219 and analytical batch 880-66218 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: c12, c13, - ne - sw (890-5556-1) and c13 - fs (890-5556-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-66219 and analytical batch 880-66218 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66149 and analytical batch 880-66125 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66125/31) and (CCV 880-66125/47). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-66149 and analytical batch 880-66125 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66135 and analytical batch 880-66127 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-66135/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: c12, c13, - ne - sw (890-5556-1) and c13

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Job ID: 890-5556-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

- fs (890-5556-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Client Sample ID: c12, c13, - ne - sw

Lab Sample ID: 890-5556-1

Date Collected: 10/31/23 13:28

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 0-4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		11/05/23 10:15	11/05/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	11/05/23 10:15	11/05/23 15:56	1
1,4-Difluorobenzene (Surr)	83		70 - 130	11/05/23 10:15	11/05/23 15:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/05/23 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.9		49.5		mg/Kg			11/03/23 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		11/03/23 12:03	11/03/23 18:40	1
Diesel Range Organics (Over C10-C28)	85.9		49.5		mg/Kg		11/03/23 12:03	11/03/23 18:40	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		11/03/23 12:03	11/03/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	11/03/23 12:03	11/03/23 18:40	1
o-Terphenyl	141	S1+	70 - 130	11/03/23 12:03	11/03/23 18:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		5.02		mg/Kg			11/03/23 22:49	1

Client Sample ID: c13 - fs

Lab Sample ID: 890-5556-2

Date Collected: 10/31/23 13:42

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/05/23 10:15	11/05/23 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	11/05/23 10:15	11/05/23 13:32	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Client Sample ID: c13 - fs

Lab Sample ID: 890-5556-2

Date Collected: 10/31/23 13:42

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	11/05/23 10:15	11/05/23 13:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/05/23 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.0		50.2		mg/Kg			11/03/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		11/03/23 12:03	11/03/23 19:01	1
Diesel Range Organics (Over C10-C28)	82.0		50.2		mg/Kg		11/03/23 12:03	11/03/23 19:01	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/03/23 12:03	11/03/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				11/03/23 12:03	11/03/23 19:01	1
o-Terphenyl	137	S1+	70 - 130				11/03/23 12:03	11/03/23 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.1		5.04		mg/Kg			11/03/23 22:54	1

Client Sample ID: exc. A12

Lab Sample ID: 890-5556-3

Date Collected: 10/31/23 14:21

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/05/23 10:15	11/05/23 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	11/05/23 10:15	11/05/23 13:52	1
1,4-Difluorobenzene (Surr)	80		70 - 130	11/05/23 10:15	11/05/23 13:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/05/23 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			11/03/23 23:16	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Client Sample ID: exc. A12
Date Collected: 10/31/23 14:21
Date Received: 11/02/23 12:04
Sample Depth: 2

Lab Sample ID: 890-5556-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		11/03/23 11:40	11/03/23 23:16	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/03/23 11:40	11/03/23 23:16	1	
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/03/23 11:40	11/03/23 23:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	118		70 - 130				11/03/23 11:40	11/03/23 23:16	1	
o-Terphenyl	112		70 - 130				11/03/23 11:40	11/03/23 23:16	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	64.8		5.02		mg/Kg			11/03/23 22:59	1	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5556-1	c12, c13, - ne - sw	88	83
890-5556-1 MS	c12, c13, - ne - sw	118	105
890-5556-1 MSD	c12, c13, - ne - sw	114	109
890-5556-2	c13 - fs	69 S1-	74
890-5556-3	exc. A12	91	80
LCS 880-66219/1-A	Lab Control Sample	110	121
LCSD 880-66219/2-A	Lab Control Sample Dup	119	114
MB 880-66219/5-A	Method Blank	69 S1-	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5556-1	c12, c13, - ne - sw	125	141 S1+
890-5556-2	c13 - fs	121	137 S1+
890-5556-3	exc. A12	118	112
LCS 880-66135/2-A	Lab Control Sample	75	95
LCS 880-66149/2-A	Lab Control Sample	106	116
LCSD 880-66135/3-A	Lab Control Sample Dup	69 S1-	84
LCSD 880-66149/3-A	Lab Control Sample Dup	101	111
MB 880-66135/1-A	Method Blank	189 S1+	219 S1+
MB 880-66149/1-A	Method Blank	230 S1+	226 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66219/5-A

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/05/23 10:15	11/05/23 12:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	11/05/23 10:15	11/05/23 12:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/05/23 10:15	11/05/23 12:50	1

Lab Sample ID: LCS 880-66219/1-A

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1218		mg/Kg		122	70 - 130
Toluene	0.100	0.1165		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2369		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-66219/2-A

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1124		mg/Kg		112	70 - 130	8	35
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	15	35
Ethylbenzene	0.100	0.09686		mg/Kg		97	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2234		mg/Kg		112	70 - 130	6	35
o-Xylene	0.100	0.1065		mg/Kg		107	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-5556-1 MS

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: c12, c13, - ne - sw

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200		0.0996	0.07840	F1	mg/Kg		57	70 - 130
Toluene	<0.00200		0.0996	0.07884	F1	mg/Kg		-84	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

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

Lab Sample ID: 890-5556-1 MS

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: c12, c13, - ne - sw

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200		0.0996	0.08216	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00399		0.199	0.1740	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200		0.0996	0.08430		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-5556-1 MSD

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: c12, c13, - ne - sw

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.07674		mg/Kg		77	70 - 130	2	35
Toluene	<0.00200	U F1	0.0994	0.07652		mg/Kg		77	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0994	0.07939		mg/Kg		80	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1677		mg/Kg		84	70 - 130	4	35
o-Xylene	<0.00200	U	0.0994	0.08154		mg/Kg		82	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-66135/1-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/23 07:41	11/03/23 08:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/23 07:41	11/03/23 08:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/23 07:41	11/03/23 08:26	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	189	S1+	70 - 130	11/03/23 07:41	11/03/23 08:26	1
o-Terphenyl	219	S1+	70 - 130	11/03/23 07:41	11/03/23 08:26	1

Lab Sample ID: LCS 880-66135/2-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	874.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	844.3		mg/Kg		84	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

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

Lab Sample ID: LCS 880-66135/2-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-66135/3-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66135

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	837.4		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	804.7		mg/Kg		80	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: MB 880-66149/1-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/23 11:39	11/03/23 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/23 11:39	11/03/23 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/23 11:39	11/03/23 19:44	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	230	S1+	70 - 130				11/03/23 11:39	11/03/23 19:44	1
o-Terphenyl	226	S1+	70 - 130				11/03/23 11:39	11/03/23 19:44	1

Lab Sample ID: LCS 880-66149/2-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66149

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	900.9		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	973.8		mg/Kg		97	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	116		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

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

Lab Sample ID: LCSD 880-66149/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 66125				Prep Batch: 66149							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	869.7		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	924.8		mg/Kg		92	70 - 130	5	20
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	111		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66174/1-A

Matrix: Solid

Analysis Batch: 66207

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/03/23 21:36	1

Lab Sample ID: LCS 880-66174/2-A

Matrix: Solid

Analysis Batch: 66207

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.6		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-66174/3-A

Matrix: Solid

Analysis Batch: 66207

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	4	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

GC VOA

Analysis Batch: 66218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8021B	66219
890-5556-2	c13 - fs	Total/NA	Solid	8021B	66219
890-5556-3	exc. A12	Total/NA	Solid	8021B	66219
MB 880-66219/5-A	Method Blank	Total/NA	Solid	8021B	66219
LCS 880-66219/1-A	Lab Control Sample	Total/NA	Solid	8021B	66219
LCSD 880-66219/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66219
890-5556-1 MS	c12, c13, - ne - sw	Total/NA	Solid	8021B	66219
890-5556-1 MSD	c12, c13, - ne - sw	Total/NA	Solid	8021B	66219

Prep Batch: 66219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	5035	
890-5556-2	c13 - fs	Total/NA	Solid	5035	
890-5556-3	exc. A12	Total/NA	Solid	5035	
MB 880-66219/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66219/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66219/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5556-1 MS	c12, c13, - ne - sw	Total/NA	Solid	5035	
890-5556-1 MSD	c12, c13, - ne - sw	Total/NA	Solid	5035	

Analysis Batch: 66296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	Total BTEX	
890-5556-2	c13 - fs	Total/NA	Solid	Total BTEX	
890-5556-3	exc. A12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 66125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-3	exc. A12	Total/NA	Solid	8015B NM	66149
MB 880-66149/1-A	Method Blank	Total/NA	Solid	8015B NM	66149
LCS 880-66149/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66149
LCSD 880-66149/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66149

Analysis Batch: 66127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8015B NM	66135
890-5556-2	c13 - fs	Total/NA	Solid	8015B NM	66135
MB 880-66135/1-A	Method Blank	Total/NA	Solid	8015B NM	66135
LCS 880-66135/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66135
LCSD 880-66135/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66135

Prep Batch: 66135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8015NM Prep	
890-5556-2	c13 - fs	Total/NA	Solid	8015NM Prep	
MB 880-66135/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66135/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66135/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

GC Semi VOA

Prep Batch: 66149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-3	exc. A12	Total/NA	Solid	8015NM Prep	
MB 880-66149/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66149/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66149/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8015 NM	
890-5556-2	c13 - fs	Total/NA	Solid	8015 NM	
890-5556-3	exc. A12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Soluble	Solid	DI Leach	
890-5556-2	c13 - fs	Soluble	Solid	DI Leach	
890-5556-3	exc. A12	Soluble	Solid	DI Leach	
MB 880-66174/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66174/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66174/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 66207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Soluble	Solid	300.0	66174
890-5556-2	c13 - fs	Soluble	Solid	300.0	66174
890-5556-3	exc. A12	Soluble	Solid	300.0	66174
MB 880-66174/1-A	Method Blank	Soluble	Solid	300.0	66174
LCS 880-66174/2-A	Lab Control Sample	Soluble	Solid	300.0	66174
LCSD 880-66174/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66174

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Client Sample ID: c12, c13, - ne - sw
Date Collected: 10/31/23 13:28
Date Received: 11/02/23 12:04

Lab Sample ID: 890-5556-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66219	11/05/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66218	11/05/23 15:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66296	11/05/23 15:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			66278	11/03/23 18:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	66135	11/03/23 12:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66127	11/03/23 18:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66174	11/03/23 15:06	CH	EET MID
Soluble	Analysis	300.0		1			66207	11/03/23 22:49	CH	EET MID

Client Sample ID: c13 - fs
Date Collected: 10/31/23 13:42
Date Received: 11/02/23 12:04

Lab Sample ID: 890-5556-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66219	11/05/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66218	11/05/23 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66296	11/05/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			66278	11/03/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	66135	11/03/23 12:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66127	11/03/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66174	11/03/23 15:06	CH	EET MID
Soluble	Analysis	300.0		1			66207	11/03/23 22:54	CH	EET MID

Client Sample ID: exc. A12
Date Collected: 10/31/23 14:21
Date Received: 11/02/23 12:04

Lab Sample ID: 890-5556-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66219	11/05/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66218	11/05/23 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66296	11/05/23 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			66278	11/03/23 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	66149	11/03/23 11:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66125	11/03/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66174	11/03/23 15:06	CH	EET MID
Soluble	Analysis	300.0		1			66207	11/03/23 22:59	CH	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Folk 11

Job ID: 890-5556-1
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5556-1	c12, c13, - ne - sw	Solid	10/31/23 13:28	11/02/23 12:04	0-4
890-5556-2	c13 - fs	Solid	10/31/23 13:42	11/02/23 12:04	4
890-5556-3	exc. A12	Solid	10/31/23 14:21	11/02/23 12:04	2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334

Xenco

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Work Order No:

www.xenco.com Page of

Project Manager:	Joseph Guesnier	Bill to: (if different)	Spur
Company Name:	Terracon	Company Name:	
Address:	4526 W. Pierce St	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:	(806)-300-0140	Email:	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.com; Joseph.Guesnier@Terracon.com

Project Name:	Folk 11	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	KH227025	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			None: NO DI Water: H ₂ O
Project Location:	Gus Sanchez	Due Date:			Cool: Cool MeOH: Me
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO ₃ : HN
PO #:					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT		Temp Blank: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		H ₃ PO ₄ : HP
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	776607		NaHSO ₄ : NABIS
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	0.2		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	2.6		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	2.1		NaOH+Ascorbic Acid: SACP

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)
C13, C13 - NE-SW		10-31-23	13:28	0-4	Comp	1		✓	✓	✓
C13 - FS		10-31-23	13:42	4	Comp	1		✓	✓	✓
A12 - BL		10-31-23	14:21	2	Grab	1		✓	✓	✓
Exc. A12										

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	15:34 11/01

Revised Date: 08/25/2020 Rev. 20.0.2

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5556-1

SDG Number: KH227025

Login Number: 5556

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5556-1

SDG Number: KH227025

Login Number: 5556

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/03/23 10:38 AM

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



**FOLK STATE #011 BATTERY
CLOSURE REPORT/DEFERRAL REQUEST**

**API NO. 30-015-37397
2RP-5527
INCIDENT ID: NAB1919234395
RELEASE DATE: 06/12/2019
U/L J, SECTION 17, RANGE 17S, TOWNSHIP 29E
EDDY COUNTY, NEW MEXICO**

**05/18/2021
PREPARED BY:**



**7 WEST COMPRESS ROAD
ARTESIA, NM 88210**

May 18, 2021

New Mexico Energy, Minerals & Natural Resources
NMOCD District II
C/O Mike Bratcher, Chad Hensley, Robert Hamlet & Christina Eads
811 S. First Street
Artesia, NM 88220

Spur Energy Partners
C/O Braidy Moulder and Dakota Neel
920 Memorial City Way, Suite 1000
Houston, TX 77024

RE: Closure/Deferral Request for Spur Energy Partners – Folk State #011 Battery
API No. 30-015-37397
RP ID: 2RP-5527
Incident ID No. NAB1919234395
U/L J, Section 17, Range 17S, Township 29E
Eddy County, New Mexico

To Whom it May Concern,

On behalf of Spur Energy Partners, Energy Staffing & Services (ESS) has prepared this Closure/Deferral Report that describes the assessment, delineation and remediation associated with the Folk State #011 Battery (hereafter referred to as the “Folk State”, dated June 12th, 2019). COG Operating provided the notification and submission of the C141 Release Notification on June 12th, 2019 with RP# 2RP-5527 and Incident ID NAB1919234395.

This letter provides a description of the spill assessment and remediation activities and demonstrates that the closure criteria established in 19.15.29.12 *New Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018)*, have been met and all applicable regulations have been followed. This document is intended to serve as a final report to obtain approval from the NMOCD for closure of this release.

Incident Description

On June 12, 2019 a release occurred at the Folk State #011 Battery site when a hole developed on the circulating line, releasing the fluid inside the lined containment. It was observed that approximately 112bbls of crude oil was released. A vacuum truck was dispatched, 80bbls of crude oil was recovered and hauled to disposal. Although the release that occurred on June 12,

2019 it was contained within the boundaries of the engineered pad and within the secondary containment. No fluid was released into any undisturbed areas and/or waterways.

This release was reported under COG Operating, LLC as they were the operator of record during the release, while Spur Energy Partners was in the process of finalizing the purchase of this lease. Spur took over operation on November 11, 2019.

Site Description

The release at the Folk State, occurred on State Land, 32.83377, -104.09565, approximately 6.81 miles northwest of Loco Hills, New Mexico. The description of the site is Unit Letter J, Section 17, Township 17S, Range 29E in Eddy County, New Mexico. The location is within the Permian Basin and has historically been used for oil and gas exploration and production. The aerial photograph and site schematic are included.

The Folk State complex consists of oil and gas equipment, a tank battery and a nearby oil and gas exploration and production well. This well is the closest well to the release and is known as the Folk State #011, which is the API No. associated with this release. The following sections precisely describe the release area inside the facility.

The surrounding landscape is associated with the Kimbrough-Stegall Loams, with 0 to 3 percent slopes. The elevation is 3622 ft. The soil map and data are attached herein.

There is no surface water located on or near the site. There are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features at the Folk State, as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The site has a "medium potential" for Karst Geology to be present near the Folk State site according to the *United States Department of the Interior, Bureau of Land Management*. Please find the Karst Map attached herein.

The nearest groundwater well according to the *New Mexico Office of the State Engineer* is RA 11807 POD1 and is found to be 3173' from the site with ground water data of 76'bgs (below ground surface) and was drilled in 2012. Upon researching the OSE Database (map included); no wells were found inside the ½ mile radius. Please find the attached groundwater data and mapping.

Closure Criteria Determination

Using Table I, Closure Criteria for Soils Impacted by a Release dated 8/14/2018, this site falls under the site ranking of <100' bgs due to the groundwater depth but due to this site falling under the "medium karst potential", the closure criteria then fall under <50' bgs.

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to the NMOCD – approved industry standards. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect clean samples in air tight glass jars supplied by the laboratory to conduct the analysis
- Each sample jar was labelled with site and sample information
- Samples were kept in and stored in a cool place and packed on ice
- Promptly ship samples to the lab for analysis following the COC (chain of custody) procedures

The following lab analysis method was used for each bottom hole and sidewall samples submitted to Envirotech Analytical Laboratory:

Volatile Organics by EPA 8021B

- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes

Nonhalogenated Organics by EPA 8015

- Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPH 8015D – DRO/GRO

- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A

- Chloride

Delineation and Remedial Activities

On or about, January 28th, 2020, Hungry Horse, LLC dispatched a crew to the location to begin digging out the material that was previously placed over the lined containment. The site had previously been mapped and photographed. The impacted material inside the containment was excavated out of the containment area by hand. The contaminated material was then stockpiled on plastic outside the lined containment. Upon fully excavating the material from on-top of the liner it became apparent that the liner contained numerous large holes, rips and missing liner in some areas. At this time, it was determined that the liner was not worth patching or repairing. The liner was then cut out and hauled to disposal. The area inside the containment then had to be fully delineated both vertically and horizontally. Thirteen (13) vertical sample points were set inside the containment with (8) horizontal sidewalls sample points. The site was sampled in 1' and 2' intervals. Both a hand-auger and mini track-hoe was used to delineate the site, due to the electrical lines, production lines and production equipment being in the area of impact. All of the surface samples obtained for sample point 1 thru 13 showed no indication of impact at the surface. The impacted area measured 12750.037 sq. ft. covering the entire containment. Taking out the production equipment and lines in the area, this leaves approximately 4000 square feet of free space.

Vertical delineation continued after the sample points were placed and surface samples were tested and logged. Each sample was titrated in the field, then jarred and sent to Envirotech Laboratory for confirmation. A PID Meter was also used to detect high concentrations of TPH. SP1 was delineated to 2'bgs and hit refusal due to hard rock in the area, chlorides were under the criteria but TPH and BTEX were above recommended levels. SP2 was delineated to 6'bgs and hit refusal, with concentrations above criteria on TPH only. SP3 was delineated to 2'bgs and hit refusal, with concentrations below the levels for chlorides but above for TPH. SP4 was delineated to 2'bgs, hitting refusal with concentrations above the levels for TPH only. SP5 thru SP13 was delineated to 4-6'bgs, with all levels below the concentration requirements. SP5 thru SP12 did not show any elevated field-testing during delineation. SP13 showed field testing was elevated in chlorides but lab analysis showed otherwise.

After obtaining the vertical samples, a full horizontal delineation began to ascertain the edges of the impacted area. Each sidewalls were sampled in the field, using the titration method, then jarred and sent to Envirotech Laboratories for confirmation. Out of the (8) samples taken during the horizontal delineation only SP5 and SP6 were elevated in chloride contamination. Please find the vertical and delineation sample data and laboratory reports attached herein.

Upon receipt of the confirmed lab analysis, it was decided to excavate 1'to 2'bgs in the area of impact from the containment area. This would maintain the integrity of the tank battery and other production lines and equipment within the containment. Excavation began by using hand shovels and a mini track-hoe when possible. The impacted material was then placed on plastic.

Following excavation an email was sent to the NMOCD requesting witnessing of final closure samples. Approximately 240 cu. yds. of contaminated soil was then loaded and hauled to Lea Land Disposal. Approximately 280 yards of clean soil was back-hauled and stockpiled on site. Following expiration of the 48-waiting period, closure samples were obtained and with no witnessing from the NMOCD due to time constraints.

The area of impact was divided into two halves, each half had 5 sample points (taking out the covered areas with production equipment) and a total of 6 sidewalls. The site was not fully excavated to meet the standard for this site due to infrastructure interference. The closure sample data indicates that contamination of the soil is still evident, that falls outside the closure criteria for this site. Therefore, a decision was made to backfill the excavated area and request a deferral of this release for the Folk State. Following receipt of the confirmed closure samples, the site was backfilled with approximately 280 cu. yds. of imported clean soil. The area was then leveled, production lines were stabilized and the area was contoured back to its natural state. The berms were replaced to contain any future spills or releases.

Closure Report Submittal and Denial

A closure report was drafted and submitted to the OCD on June 24th, 2020. The closure report was then denied by the OCD on September 30, 2020 for the following reasons:

The OCD has denied the submitted Closure Report/Deferral Request C-141 for incident # NAB1919234395 FOLK STATE #011 @ 30-015-37397 for the following reasons:

- The Depth to groundwater has not been established. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, data should be no more than 25 years old, and well construction information should be provided:
<http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf>.
Therefore, the remediation levels outlined in Table 1 of 19.15.29 NMAC have not been established for this site.

- Vertical delineation, which is driven by depth to water, is incomplete because the depth to groundwater has not been established.
- Each confirmation floor sample was representative of ~6000 square feet, exceeding part 29 Closure Requirements by over 30 times.
- The OCD wants to clarify that the entire release area will not be deferred, only the sample points that are around production equipment such as production tanks, wellheads and pipelines. The release must be remediated to the fullest extent possible. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. All sample points, except the requested sample points for deferral, must have contaminated soil removed before a deferral request is uploaded to the payment portal.

At this time, Spur Energy decided to drill a borehole to confirm that ground water was not found <76'. A boring rig went out to the site on Monday May 10th, 2021. Boring log

information is found below and is attached to this report. The location of the borehole was placed at 32.8336260 -104.0965154. The borehole was placed on the west side of the location, side gradient of the release, away from any flowlines, buried lines of production infrastructure.

0' to 3' – topsoil

3' to 14' – caliche

14' to 20' – red sand/clay

20' to 30' – red sand

30' to 78' – anhydrite/red sand/clay

The borehole was left open for 48 hours. Upon returning the borehole was still dry at 78'. The Borehole was then plugged from bottom to top with 35 sacks of bentonite chips.

No further delineation was completed as this site will need a further delineation, excavation and reclamation once the wells have been plugged and the facility is no longer needed.

Closure/Deferral Request

ESS on behalf of Spur Energy Partners requests that the delineation, partial remediation and depth to ground water determination to provide resourceful information to have this release that occurred on the Folk State to be placed under deferment. Due to lines, production infrastructure and safe excavating restrictions, that deferment be granted until the wells going to this facility have been plugged or reconstruction and/or placement of the facility is redesigned, that the impacted area stay in place and this release in question be deferred. With the removal of the liner, full delineation and partial remediation only in the impacted zone, that enough evidence has been provided to prove that there is no imminent danger to the environment and drinking water due to the Folk State Release that occurred on June 12, 2019. The tank battery area will require further delineation and remediation once the location is decommissioned, tanks are removed and all other production equipment is removed or relocated. Due to safety precautions, live production lines and electrical sources, it is determined unsafe to compromise the production equipment with further excavation at this time.

The information provided in this report can be used to determine that further actions are needed at time of abandonment. If you have any questions or concerns, please contact the undersigned.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

#7 Compress Rd

Artesia, NM 88210

Cell: 575-390-6397

Email: natalie@energystaffingllc.com



Attachments:

- Initial C141
- Site Map
- Soil Map
- Karst Map
- Groundwater Data and Mapping
- Before Photos
- Sample Data
- Delineation Sample Map w/GPS
- Delineation Lab Analysis
- During Photos
- Closure Sample Map w/GPS
- Closure Lab Analysis
- Final Photos
- Closure Denial Email
- Boring Logs
- Drilling Photos
- Final C141

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<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 type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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.	
Printed Name: _____	Title: _____
Signature: <u>Delann Opreant</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

SPUR ENERGY

FOLK STATE #011 BATTERY
DOR: 6.12.19

Old Loco Rd N

211

FOLK STATE #011 BATTERY



200 ft



Soil Map—Eddy Area, New Mexico
(FOLK STATE #011 BATTERY)

Soil Map—Eddy Area, New Mexico
(FOLK STATE #011 BATTERY)

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

- Area of Interest (AOI)

Area of Interest (AOI)
- Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points
- Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot
- Water Features

Streams and Canals
- Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads
- Background

Aerial Photography
- Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features





Map Unit Legend

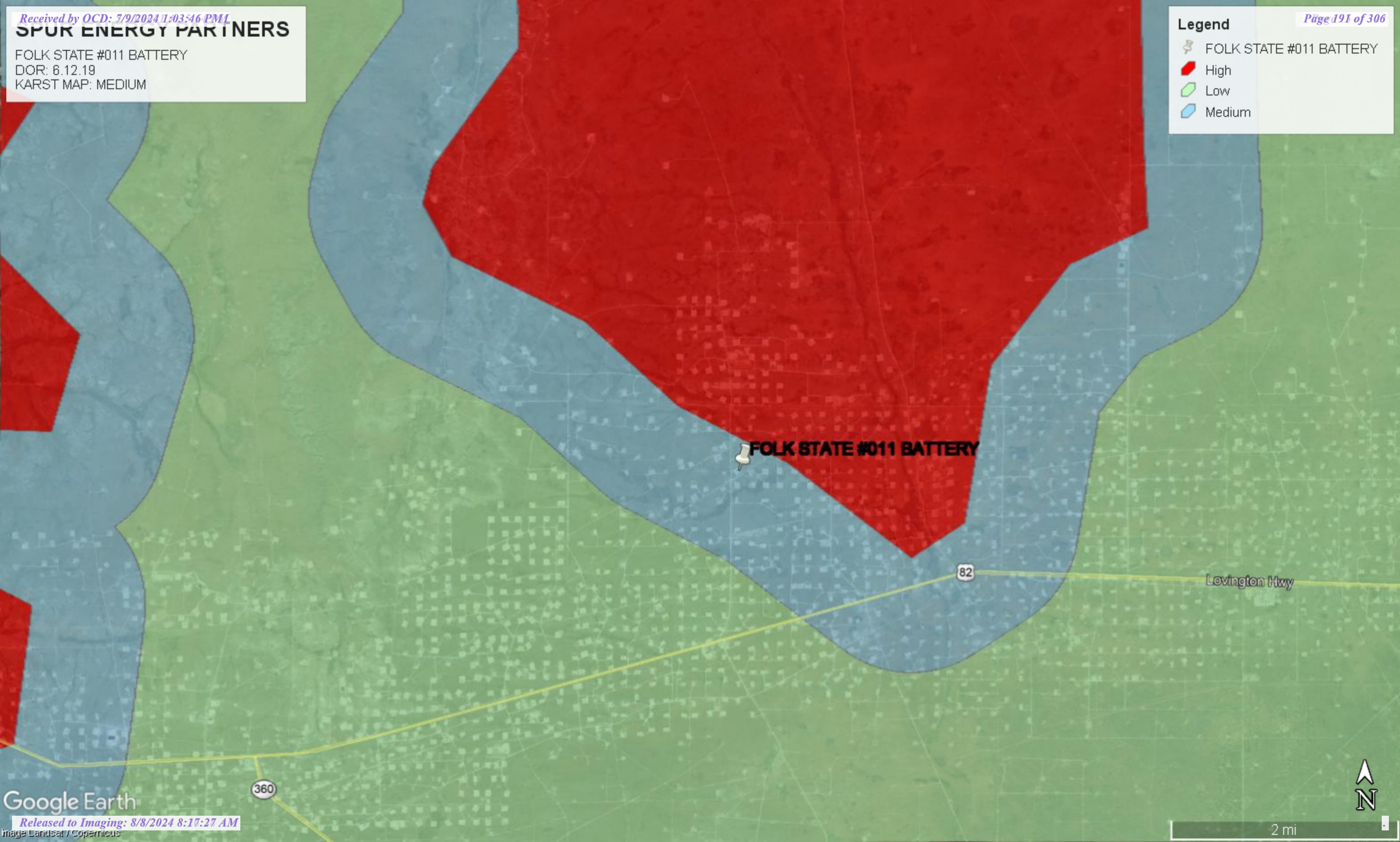
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KT	Kimbrough-Stegall loams, 0 to 3 percent slopes	7.9	100.0%
Totals for Area of Interest		7.9	100.0%

SPUR ENERGY PARTNERS

FOLK STATE #011 BATTERY
DOR: 6.12.19
KARST MAP: MEDIUM

Legend

-  FOLK STATE #011 BATTERY
-  High
-  Low
-  Medium



SPUR ENERGY PARTNERS

FOLK STATE #011 BATTERY
DOR: 6.12.19
GROUNDWATER MAP

RA 12307 POD 1 - 4214' FROM SITE 58' DGW

FOLK STATE #011 BATTERY

RA 11807 POD 1 - 3173' FROM SITE 76' DGW

82

360

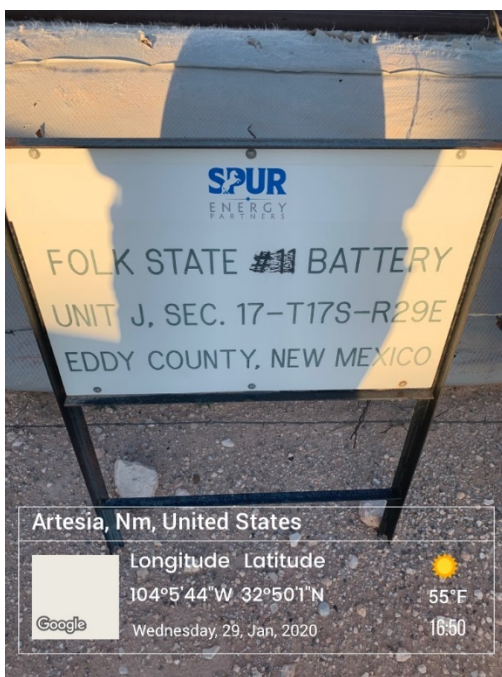
Google Earth

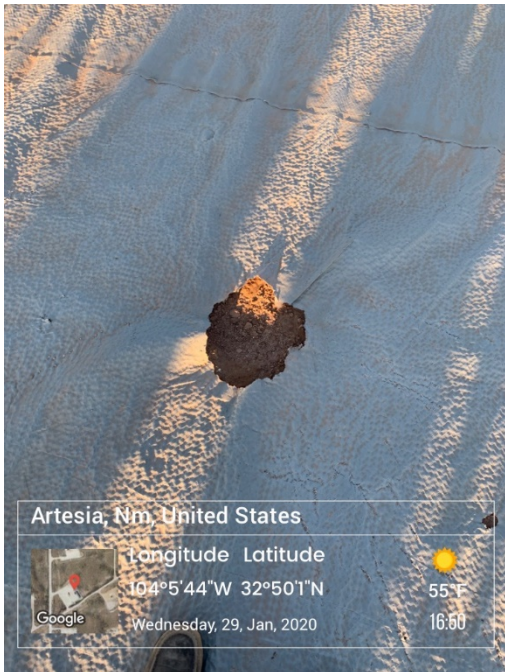
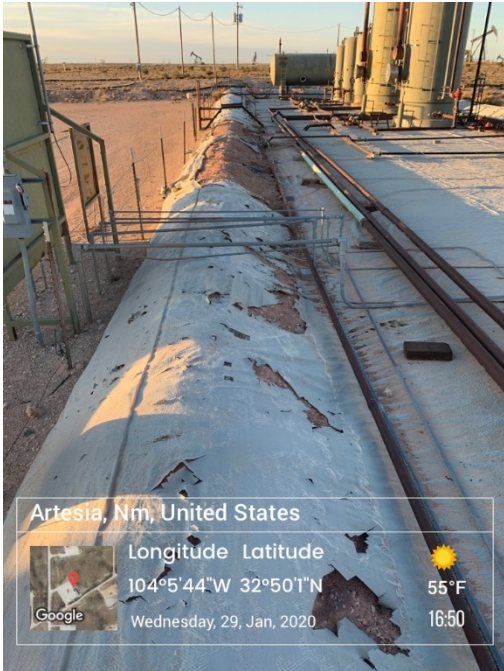
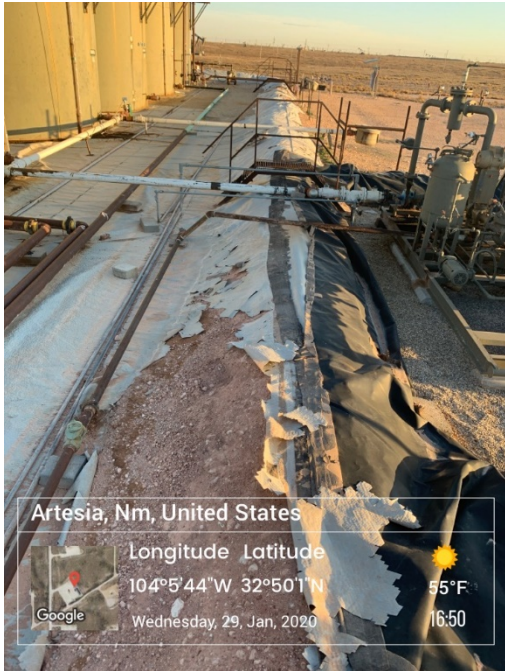
2 mi

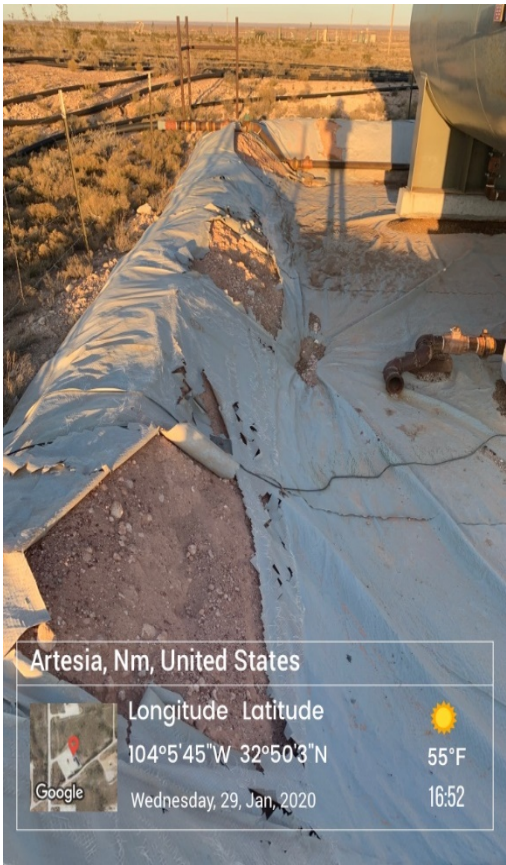
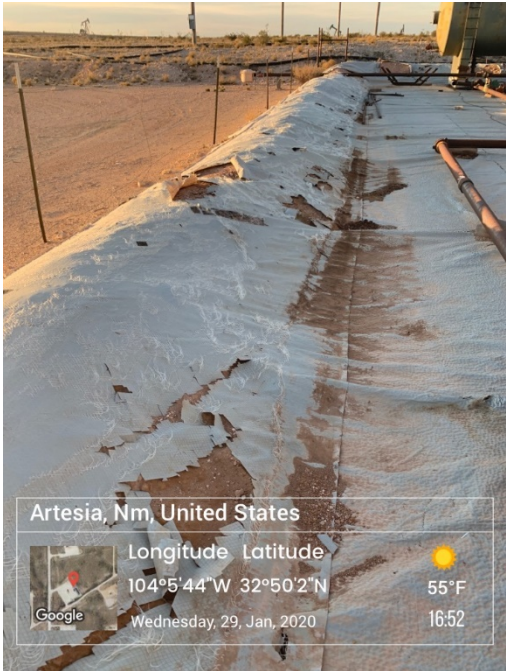
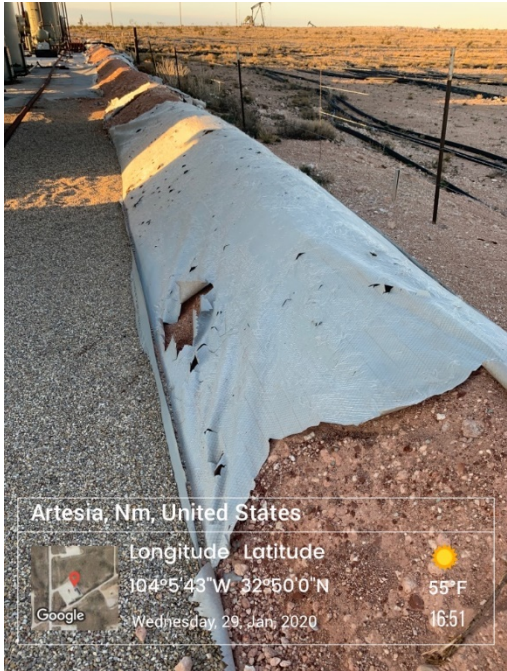




FOLK STATE #011
BEGINNING PHOTOS











Company Name: SPUR Location Name: FOLK STATE #011 BTY Release Date: 6/12/2019

SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP 1	SURF	160	TPH								
	1'	240	TPH								
	2'	400	TPH	8.9	8770	3660	162	12592.00	153		COULDN'T GO DEEPER - ROCK
SP 2	SURF	320	TPH								
	1'	400	TPH								
	2'	320	TPH								
	4'	320	TPH								
	6'	320	TPH	ND	1010	507	ND	1517.00	190		
SP 3	SURF	240	TPH								
	1'	1760	TPH								
	2'	1040	TPH	ND	882	480	ND	1362.00	564		
SP 4	SURF	160	TPH								
	1'	160	TPH								
	2'	160	TPH	0.0951	5210	2460	ND	7670.00	28.1		
SP 5	SURF	240	TPH								
	1'	240	TPH								
	2'	240	TPH								
	4'	240	TPH								
	6'	240	TPH	ND	498	287	ND	785.00	98.7		
SP 6	SURF	160	TPH								
	1'	160	TPH								
	2'	240	TPH								
	4'	240	TPH								
	6'	240	TPH	ND	147	105	ND	252.00	ND		
SP 7	SURF	240	TPH								

	1'	160	TPH								
	2'	560	TPH								
	4'	160	TPH								
	6'	160	TPH	ND	386	231	ND	627.00	33.7		
SP 8	SURF	160	TPH								
	1'	240	TPH								
	2'	240	TPH								
	4'	160									
	6'	320		ND	ND	ND	ND	ND	ND		
SP 9	SURF	240	TPH								
	1'	240	TPH								
	2'	160	TPH								
	4'	160									
	6'	160		ND	ND	ND	ND	ND	ND		
SP 10	SURF	240	TPH								
	1'	160	TPH								
	2'	240	TPH								
	4'	160	TPH								
	6'	160		ND	46.2	ND	ND	46.20	ND		
SP 11	SURF	240	TPH								
	1'	240	TPH								
	2'	240	TPH								
	4'	240	TPH								
	6'	240		ND	ND	ND	ND	ND	135		
SP 12	SURF	320	TPH								
	1'	480	TPH								
	2'	320	TPH								
	4'	480		ND	ND	ND	ND	ND	266		

SP13	SURF	ND	TPH								
	1'	1440	TPH								
	2'	1200	TPH								
	4'	1440		ND	ND	ND	ND	ND	220		
BG		160		ND	ND	ND	ND	ND	21.3		

SW1	SURF	320									
	1'	160		ND	ND	ND	ND	ND	ND		

SW2	SURF	960									
	1'	80		ND	ND	ND	ND	ND	ND		

SW3	SURF	1050									
	1'	240		ND	ND	ND	ND	ND	49.4		

SW4	SURF	1200									
	1'	240		ND	ND	ND	ND	ND	33.3		

SW5	SURF	3600									
	1'	2320		ND	ND	ND	ND	ND	2110		

SW6	SURF	800									
	1'	960		ND	34.9	ND	ND	ND	870		

SW7	SURF	800									
	1'	560		ND	ND	ND	ND	ND	462		

SW8	SURF	320									
	1'	320		ND	ND	ND	ND	ND	130		

C SW 1		160		ND	30.3	ND	ND	30.30	46.1		
--------	--	-----	--	----	------	----	----	-------	------	--	--

C SW 2		160		ND	ND	ND	ND	ND	1260		
--------	--	-----	--	----	----	----	----	----	------	--	--

C SW 3		240		ND	ND	ND	ND	ND	2430		
C SW 4		80		ND	ND	ND	ND	ND	ND		
C SW 5		240		ND	ND	ND	ND	ND	165		
C SW 6		400		ND	41.8	ND	ND	41.80	490		
NCSP 1		240		ND	11200	5010	ND	27410.00	25.1		
NCSP 2		720		ND	3760	1860	ND	5620.00	ND		
NCSP 3		160		ND	9690	1850	ND	11540.00	38.3		
NCSP 4		160		ND	4750	1040	ND	5890.00	ND		
NCSP 5		160		ND	4460	1980	ND	6440.00	ND		
CP N	COMP	240		ND	7470	3510	ND	10980.00	150		
SCSP1		240		2.63	15600	6220	51.2	21871.20	ND		
SCSP2		720		ND	3970	1760	ND	5730.00	ND		
SCSP3		160		ND	1680	929	ND	2609.00	ND		
SCSP4		160		ND	1200	601	ND	1801.00	134		
SCSP5		160		ND	403	459	ND	862.00	147		
CP S	COMP	240		0.151	4250	1870	ND	6120.00	65.4		



FOLK STATE BATTERY

DOR: 06/12/2019



SIDEWALL GPS

SW1: 32.834216 -104.095874

SW2: 32.834129 -104.095726

SW3: 32.833921 -104.095580

SW4: 32.833689 -104.095408

SW5: 32.833503 -104.095350

SW6: 32.833619 -104.095535

SW7: 32.833878 -104.095720

SW8: 32.834076 -104.095861

• BG SAMPLE

SW1

SP1

SW2

SW8

SP2

SP3

SP4

SP5

SW3

SW7

SP6

SP7

SP8

SP9

SW4

SW6

SP10

SP11

SP13

SP12

SW5

BACKGROUND GPS

32.834129 -104.095219

SAMPLE POINT GPS

SP1: 32.834151 -104.095837

SP2: 32.834086 -104.095826

SP3: 32.834091 -104.095741

SP4: 32.833958 -104.095751

SP5: 32.833938 -104.095655

SP6: 32.833880 -104.095627

SP7: 32.833812 -104.095588

SP8: 32.833689 -104.095545

SP9: 32.833713 -104.095459

SP10: 32.833627 -104.095507

SP11: 32.833625 -104.095407

SP12: 32.833516 -104.095364

SP13: 32.833552 -104.095448



0 5 10 20 30 40 Yards

Legend

- Point_generic
- SamplePoint



Analytical Report

Report Summary

Client: Spur

Samples Received: 3/31/2020

Job Number: 19054-0003

Work Order: P003135

Project Name/Location: Folk State

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is placed over a light blue rectangular background.

Date: 4/1/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur
PO Box 1058
Hobbs NM, 88240

Project Name: Folk State
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
04/01/20 15:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-6'	P003135-01A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP2-6'	P003135-02A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP3-2'	P003135-03A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP4-2'	P003135-04A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP5-6'	P003135-05A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP6-6'	P003135-06A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP7-6'	P003135-07A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP8-6'	P003135-08A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP9-6'	P003135-09A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP10-6'	P003135-10A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP11-6'	P003135-11A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP12-4'	P003135-12A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
SP13-4'	P003135-13A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.
Background	P003135-14A	Soil	03/30/20	03/31/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP1-6'
P003135-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.138	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	0.991	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	1.96	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	5.26	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	3.64	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	8.90	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	8770	500	mg/kg	20	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	3660	1000	mg/kg	20	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		208 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	S5

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	162	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	153	100	mg/kg	5	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------------	-----	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP2-6'
P003135-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1010	125	mg/kg	5	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	507	250	mg/kg	5	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.6 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	190	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP3-2'
P003135-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	882	125	mg/kg	5	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	480	250	mg/kg	5	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	564	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP4-2'
P003135-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	0.0739	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	0.0698	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	0.0253	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	0.0951	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>107 %</i>		<i>50-150</i>	<i>2014006</i>	<i>03/31/20</i>	<i>03/31/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	5210	500	mg/kg	20	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	2460	1000	mg/kg	20	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>111 %</i>		<i>50-200</i>	<i>2014004</i>	<i>03/31/20</i>	<i>03/31/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.0 %</i>		<i>50-150</i>	<i>2014006</i>	<i>03/31/20</i>	<i>03/31/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	28.1	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-------------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP5-6'
P003135-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	498	50.0	mg/kg	2	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	287	100	mg/kg	2	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	98.7	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP6-6'
P003135-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	147	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	105	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.4 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	40.0	mg/kg	2	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP7-6'
P003135-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	386	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	231	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	33.7	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP8-6'
P003135-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		86.6 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	100	mg/kg	5	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	----	-----	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP9-6'
P003135-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		84.2 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.2 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP10-6'
P003135-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	46.2	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP11-6'
P003135-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.5 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	135	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP12-4'
P003135-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.6 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.2 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	266	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

SP13-4'
P003135-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.3 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	220	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

Background
P003135-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2014006	03/31/20	03/31/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014004	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		94.5 %		50-200	2014004	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014006	03/31/20	03/31/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.8 %		50-150	2014006	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	21.3	20.0	mg/kg	1	2014003	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014006 - Purge and Trap EPA 5030A

Blank (2014006-BLK1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 8.31 " 8.00 104 50-150

LCS (2014006-BS1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	5.06	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.09	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.10	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.11	0.0250	"	5.00		102	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	0-200			

Surrogate: 4-Bromochlorobenzene-PID 8.53 " 8.00 107 50-150

Matrix Spike (2014006-MS1)

Source: P003133-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	4.80	0.0250	mg/kg	5.00	ND	96.0	54.3-133			
Toluene	4.82	0.0250	"	5.00	ND	96.3	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.1	61.4-133			
p,m-Xylene	9.60	0.0500	"	10.0	ND	96.0	63.3-131			
o-Xylene	4.83	0.0250	"	5.00	ND	96.6	63.3-131			
Total Xylenes	14.4	0.0250	"	15.0	ND	96.2	0-200			

Surrogate: 4-Bromochlorobenzene-PID 8.38 " 8.00 105 50-150

Matrix Spike Dup (2014006-MSD1)

Source: P003133-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	4.97	0.0250	mg/kg	5.00	ND	99.4	54.3-133	3.49	20	
Toluene	4.97	0.0250	"	5.00	ND	99.4	61.4-130	3.17	20	
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.2	61.4-133	3.17	20	
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131	3.10	20	
o-Xylene	4.98	0.0250	"	5.00	ND	99.6	63.3-131	3.06	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.2	0-200	3.09	200	

Surrogate: 4-Bromochlorobenzene-PID 8.42 " 8.00 105 50-150

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014004 - DRO Extraction EPA 3570

Blank (2014004-BLK1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			

LCS (2014004-BS1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	443	25.0	mg/kg	500		88.6	38-132			
Surrogate: n-Nonane	46.9		"	50.0		93.9	50-200			

Matrix Spike (2014004-MS1)

Source: P003133-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	468	25.0	mg/kg	500	ND	93.6	38-132			
Surrogate: n-Nonane	47.3		"	50.0		94.7	50-200			

Matrix Spike Dup (2014004-MSD1)

Source: P003133-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	490	25.0	mg/kg	500	ND	98.0	38-132	4.55	20	
Surrogate: n-Nonane	48.7		"	50.0		97.3	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014006 - Purge and Trap EPA 5030A

Blank (2014006-BLK1)		Prepared: 03/31/20 0 Analyzed: 03/31/20 1								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		"	8.00		91.9	50-150			
LCS (2014006-BS2)		Prepared: 03/31/20 0 Analyzed: 03/31/20 1								
Gasoline Range Organics (C6-C10)	44.7	20.0	mg/kg	50.0		89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			
Matrix Spike (2014006-MS2)		Source: P003133-01		Prepared: 03/31/20 0 Analyzed: 03/31/20 1						
Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		"	8.00		91.9	50-150			
Matrix Spike Dup (2014006-MSD2)		Source: P003133-01		Prepared: 03/31/20 0 Analyzed: 03/31/20 1						
Gasoline Range Organics (C6-C10)	44.7	20.0	mg/kg	50.0	ND	89.5	70-130	1.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.3	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014003 - Anion Extraction EPA 300.0/9056A

Blank (2014003-BLK1)				Prepared & Analyzed: 03/31/20 0						
Chloride	ND	20.0	mg/kg							
LCS (2014003-BS1)				Prepared & Analyzed: 03/31/20 0						
Chloride	235	20.0	mg/kg	250		93.8	90-110			
Matrix Spike (2014003-MS1)				Source: P003131-01 Prepared: 03/31/20 0 Analyzed: 03/31/20 1						
Chloride	508	20.0	mg/kg	250	252	102	80-120			
Matrix Spike Dup (2014003-MSD1)				Source: P003131-01 Prepared: 03/31/20 0 Analyzed: 03/31/20 1						
Chloride	509	20.0	mg/kg	250	252	103	80-120	0.289	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 15:58

Notes and Definitions

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Project Information

Chain of Custody

Page 1 of 2

Client: <u>SPUR</u>				Bill To				Lab Use Only				TAT		EPA Program					
Project: <u>Folk State</u>				Attention:				Lab WO# <u>P003135</u>		Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDWA			
Project Manager:				Address:				Analysis and Method								State			
Address:				City, State, Zip				DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	NM	CO	UT	AZ
City, State, Zip				Phone:												TX	OK		
Phone:				Email: <u>Natalie</u>															
Report due by:																			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number													Remarks	
		<u>S</u>	<u>1</u>	<u>SP1-6'</u>	<u>1</u>									<u>X</u>					
		<u> </u>	<u> </u>	<u>SP2-6'</u>	<u>2</u>														
		<u> </u>	<u> </u>	<u>SP3-2'</u>	<u>3</u>														
		<u> </u>	<u> </u>	<u>SP4-2'</u>	<u>4</u>														
		<u> </u>	<u> </u>	<u>SP5-6'</u>	<u>5</u>														
		<u> </u>	<u> </u>	<u>SP6-6'</u>	<u>6</u>														
		<u> </u>	<u> </u>	<u>SP7-6'</u>	<u>7</u>														
		<u> </u>	<u> </u>	<u>SP8-6'</u>	<u>8</u>														
		<u> </u>	<u> </u>	<u>SP9-6'</u>	<u>9</u>														
		<u> </u>	<u> </u>	<u>SP10-6'</u>	<u>10</u>														
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>Kelly Hines</u>		<u>3/30/20</u>		<u>14:05</u>		<u>[Signature]</u>		<u>3.30.20</u>		<u>1405</u>		Received on ice: <u>Y</u> / N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1							
<u>[Signature]</u>		<u>3.30.2020</u>		<u>1640</u>		<u>Rainer Lopez</u>		<u>3/31/20</u>		<u>9:30</u>		T2							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3							
												AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech
Analytical Laboratory



Analytical Report

Report Summary

Client: Spur

Samples Received: 3/31/2020

Job Number: 19054-0003

Work Order: P003134

Project Name/Location: Folk State

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 4/1/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur
PO Box 1058
Hobbs NM, 88240

Project Name: Folk State
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
04/01/20 13:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-1'	P003134-01A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW2-1'	P003134-02A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW3-1'	P003134-03A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW4-1'	P003134-04A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW5-2'	P003134-05A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW6-1'	P003134-06A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW7-1'	P003134-07A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.
SW8-1'	P003134-08A	Soil	03/28/20	03/31/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW1-1'
P003134-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.5 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		86.7 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.5 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW2-1'
P003134-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.2 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		95.7 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		88.4 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.2 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		95.7 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW3-1'
P003134-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.5 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		98.2 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		88.7 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.5 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		98.2 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	49.4	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW4-1'
P003134-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.6 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		96.4 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		90.8 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.6 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		96.4 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	33.3	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW5-2'
P003134-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		100 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		82.4 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		100 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	2110	40.0	mg/kg	2	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW6-1'
P003134-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.8 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.5 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	34.9	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		79.9 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.8 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.5 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	870	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW7-1'
P003134-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		86.5 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	462	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

SW8-1'**P003134-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.8 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Toluene-d8		107 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.4 %		70-130	2014007	03/31/20	03/31/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2014005	03/31/20	03/31/20	EPA 8015D	
Surrogate: n-Nonane		85.4 %		50-200	2014005	03/31/20	03/31/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.8 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Toluene-d8		107 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.4 %		70-130	2014007	03/31/20	03/31/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	130	20.0	mg/kg	1	2014002	03/31/20	03/31/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014007 - Purge and Trap EPA 5030A

Blank (2014007-BLK1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.525		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.534		"	0.500		107	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.5	70-130			

LCS (2014007-BS1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	2.26	0.0250	mg/kg	2.50		90.5	70-130			
Toluene	2.56	0.0250	"	2.50		102	70-130			
Ethylbenzene	2.56	0.0250	"	2.50		102	70-130			
p,m-Xylene	5.08	0.0500	"	5.00		102	70-130			
o-Xylene	2.51	0.0250	"	2.50		100	70-130			
Total Xylenes	7.59	0.0250	"	7.50		101	0-200			
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.534		"	0.500		107	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.6	70-130			

Matrix Spike (2014007-MS1)

Source: P003134-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	2.32	0.0250	mg/kg	2.50	ND	92.9	48-131			
Toluene	2.58	0.0250	"	2.50	ND	103	48-130			
Ethylbenzene	2.59	0.0250	"	2.50	ND	104	45-135			
p,m-Xylene	5.16	0.0500	"	5.00	ND	103	43-135			
o-Xylene	2.56	0.0250	"	2.50	ND	103	43-135			
Total Xylenes	7.72	0.0250	"	7.50	ND	103	0-200			
Surrogate: 1,2-Dichloroethane-d4	0.533		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.538		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.490		"	0.500		98.0	70-130			

Matrix Spike Dup (2014007-MSD1)

Source: P003134-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Benzene	2.31	0.0250	mg/kg	2.50	ND	92.3	48-131	0.626	23	
Toluene	2.54	0.0250	"	2.50	ND	102	48-130	1.35	24	
Ethylbenzene	2.54	0.0250	"	2.50	ND	102	45-135	1.97	27	
p,m-Xylene	5.09	0.0500	"	5.00	ND	102	43-135	1.39	27	
o-Xylene	2.52	0.0250	"	2.50	ND	101	43-135	1.93	27	
Total Xylenes	7.60	0.0250	"	7.50	ND	101	0-200	1.57	200	
Surrogate: 1,2-Dichloroethane-d4	0.505		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.519		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.489		"	0.500		97.8	70-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014005 - DRO Extraction EPA 3570

Blank (2014005-BLK1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			

LCS (2014005-BS1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	457	25.0	mg/kg	500		91.3	38-132			
Surrogate: n-Nonane	48.5		"	50.0		97.0	50-200			

Matrix Spike (2014005-MS1)

Source: P003132-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500	ND	90.5	38-132			
Surrogate: n-Nonane	49.0		"	50.0		97.9	50-200			

Matrix Spike Dup (2014005-MSD1)

Source: P003132-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500	ND	88.8	38-132	1.90	20	
Surrogate: n-Nonane	47.7		"	50.0		95.4	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014007 - Purge and Trap EPA 5030A

Blank (2014007-BLK1)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.525		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.534		"	0.500		107	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.5	70-130			

LCS (2014007-BS2)

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Gasoline Range Organics (C6-C10)	53.6	20.0	mg/kg	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.542		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.477		"	0.500		95.3	70-130			

Matrix Spike (2014007-MS2)

Source: P003134-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Gasoline Range Organics (C6-C10)	52.3	20.0	mg/kg	50.0	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		"	0.500		95.7	70-130			
Surrogate: Toluene-d8	0.540		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.497		"	0.500		99.3	70-130			

Matrix Spike Dup (2014007-MSD2)

Source: P003134-01

Prepared: 03/31/20 0 Analyzed: 03/31/20 1

Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130	3.50	20	
Surrogate: 1,2-Dichloroethane-d4	0.498		"	0.500		99.5	70-130			
Surrogate: Toluene-d8	0.537		"	0.500		107	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.1	70-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

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

Batch 2014002 - Anion Extraction EPA 300.0/9056A

Blank (2014002-BLK1)				Prepared & Analyzed: 03/31/20 0						
Chloride	ND	20.0	mg/kg							
LCS (2014002-BS1)				Prepared & Analyzed: 03/31/20 0						
Chloride	240	20.0	mg/kg	250		95.9	90-110			
Matrix Spike (2014002-MS1)				Source: P003132-01 Prepared: 03/31/20 0 Analyzed: 03/31/20 1						
Chloride	247	20.0	mg/kg	250	ND	98.8	80-120			
Matrix Spike Dup (2014002-MSD1)				Source: P003132-01 Prepared: 03/31/20 0 Analyzed: 03/31/20 1						
Chloride	248	20.0	mg/kg	250	ND	99.1	80-120	0.295	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/01/20 13:23

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - ** Methods marked with ** are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Project Information

Chain of Custody

Page 1 of 1

Client: <u>SPUR</u>				Bill To				Lab Use Only				TAT		EPA Program						
Project: <u>FOIK State</u>				Attention:				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA				
Project Manager:				Address:				P003134		19854-0003										
Address:				City, State, Zip				Analysis and Method								State				
City, State, Zip				Phone:				DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC - TX	NM	CO	UT	AZ
Phone:				Email: <u>Natalie</u>													TX	OK		
Report due by:																				Remarks
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number															
	3-28-20	S	1	SW1-1'	1															
				SW2-1'	2															
				SW3-1'	3															
				SW4-1'	4															
	3-29-20			SW5-2'	5															
	3-28-20			SW6-1'	6															
				SW7-1'	7															
				SW8-1'	8															
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only				
<u>[Signature]</u>				3/30/20		1405		<u>[Signature]</u>				3-30-2020		1405		Received on ice: <u>Y</u> / N				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1				
<u>[Signature]</u>				3-30-2020		1640		<u>Rain Lopez</u>				3/31/20		9:30		T2				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T3				
<u>[Signature]</u>																AVG Temp °C <u>4</u>				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

Fa (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com



**FOLK STATE #011
DURING PHOTOS – RELEASE DATE 06/12/2019**















Spur Energy Partners Folk State 011



CLOSURE SAMPLE MAP

NORTH COMPOSITE SAMPLE GPS

NCSP1: 32.834132 -104.095861

NCSP2: 32.834132 -104.095766

NCSP3: 32.834045 -104.095791

NCSP4: 32.833973 -104.095657

NCSP5: 32.833884 -104.095688

CLOSURE SIDEWALL GPS

CSW1: 32.834219 -104.095887

CSW2: 32.834078 -104.095666

CSW3: 32.833770 -104.095438

CSW4: 32.833494 -104.095346

CSW5: 32.833618 -104.095536

CSW6: 32.834004 -104.095820

SOUTH COMPOSITE SAMPLE GPS:

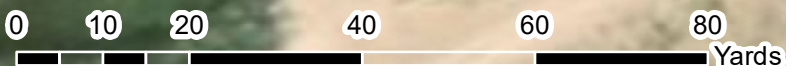
SCSP1: 32.833804 -104.095634

SCSP2: 32.833767 -104.095508

SCSP3: 32.833690 -104.095555

SCSP4: 32.833641 -104.095413

SCSP5: 32.833502 -104.095402



Legend

Area_generic



Analytical Report

Report Summary

Client: Spur

Samples Received: 4/6/2020

Job Number: 19054-0003

Work Order: P004015

Project Name/Location: Folk State Bty

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 4/7/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur
PO Box 1058
Hobbs NM, 88240

Project Name: Folk State Bty
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
04/07/20 12:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp South - SP1	P004015-01A	Soil	03/31/20	04/06/20	Glass Jar, 4 oz.
Comp South - SP2	P004015-02A	Soil	03/31/20	04/06/20	Glass Jar, 4 oz.
Comp South - SP3	P004015-03A	Soil	03/31/20	04/06/20	Glass Jar, 4 oz.
Comp South - SP4	P004015-04A	Soil	03/31/20	04/06/20	Glass Jar, 4 oz.
Comp South - SP5	P004015-05A	Soil	03/31/20	04/06/20	Glass Jar, 4 oz.
Comp South	P004015-06A	Soil	03/31/20	04/06/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

**Comp South - SP1
P004015-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	0.125	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	0.759	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	1.39	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	1.25	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	2.63	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>123 %</i>		<i>50-150</i>	<i>2015001</i>	<i>04/06/20</i>	<i>04/06/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	15600	1250	mg/kg	50	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	6220	2500	mg/kg	50	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>162 %</i>		<i>50-200</i>	<i>2015002</i>	<i>04/06/20</i>	<i>04/06/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.1 %</i>		<i>50-150</i>	<i>2015001</i>	<i>04/06/20</i>	<i>04/06/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Comp South - SP2
P004015-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	0.0543	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		110 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	3970	500	mg/kg	20	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	1760	1000	mg/kg	20	2015002	04/06/20	04/06/20	EPA 8015D	
Surrogate: n-Nonane		100 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Comp South - SP3**P004015-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1680	125	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	929	250	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	20.8	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Comp South - SP4**P004015-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1200	50.0	mg/kg	2	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	601	100	mg/kg	2	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	134	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Comp South - SP5**P004015-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	503	125	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	459	250	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.6 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	147	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Comp South
P004015-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	0.154	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	0.0624	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	0.0888	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	0.151	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		111 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	4250	250	mg/kg	10	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	1870	500	mg/kg	10	2015002	04/06/20	04/06/20	EPA 8015D	
Surrogate: n-Nonane		109 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	65.4	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015001 - Purge and Trap EPA 5030A

Blank (2015001-BLK1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	8.69		"	8.00		109	50-150			
-------------------------------------	------	--	---	------	--	-----	--------	--	--	--

LCS (2015001-BS1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	4.52	0.0250	mg/kg	5.00		90.3	70-130			
Toluene	4.62	0.0250	"	5.00		92.5	70-130			
Ethylbenzene	4.66	0.0250	"	5.00		93.2	70-130			
p,m-Xylene	9.33	0.0500	"	10.0		93.3	70-130			
o-Xylene	4.71	0.0250	"	5.00		94.3	70-130			
Total Xylenes	14.0	0.0250	"	15.0		93.6	0-200			

Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			
-------------------------------------	------	--	---	------	--	-----	--------	--	--	--

Matrix Spike (2015001-MS1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	4.74	0.0250	mg/kg	5.00	ND	94.7	54.3-133			
Toluene	4.85	0.0250	"	5.00	ND	97.1	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.9	61.4-133			
p,m-Xylene	9.78	0.0500	"	10.0	ND	97.8	63.3-131			
o-Xylene	4.92	0.0250	"	5.00	ND	98.4	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.0	0-200			

Surrogate: 4-Bromochlorobenzene-PID	8.69		"	8.00		109	50-150			
-------------------------------------	------	--	---	------	--	-----	--------	--	--	--

Matrix Spike Dup (2015001-MSD1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	4.74	0.0250	mg/kg	5.00	ND	94.7	54.3-133	0.0243	20	
Toluene	4.83	0.0250	"	5.00	ND	96.7	61.4-130	0.422	20	
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.4	61.4-133	0.495	20	
p,m-Xylene	9.72	0.0500	"	10.0	ND	97.2	63.3-131	0.591	20	
o-Xylene	4.90	0.0250	"	5.00	ND	97.9	63.3-131	0.430	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.5	0-200	0.537	200	

Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		106	50-150			
-------------------------------------	------	--	---	------	--	-----	--------	--	--	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015002 - DRO Extraction EPA 3570

Blank (2015002-BLK1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

LCS (2015002-BS1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	411	25.0	mg/kg	500		82.3	38-132			
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

Matrix Spike (2015002-MS1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	438	25.0	mg/kg	500	ND	87.6	38-132			
Surrogate: n-Nonane	44.3		"	50.0		88.6	50-200			

Matrix Spike Dup (2015002-MSD1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	437	25.0	mg/kg	500	ND	87.3	38-132	0.278	20	
Surrogate: n-Nonane	46.4		"	50.0		92.9	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015001 - Purge and Trap EPA 5030A

Blank (2015001-BLK1)				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		"	8.00		93.0	50-150			
LCS (2015001-BS2)				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		"	8.00		91.8	50-150			
Matrix Spike (2015001-MS2)				Source: P004013-01		Prepared: 04/06/20 0 Analyzed: 04/06/20 1				
Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		"	8.00		93.8	50-150			
Matrix Spike Dup (2015001-MSD2)				Source: P004013-01		Prepared: 04/06/20 0 Analyzed: 04/06/20 1				
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.1	70-130	0.794	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		"	8.00		93.9	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015003 - Anion Extraction EPA 300.0/9056A

Blank (2015003-BLK1)				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2015003-BS1)				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2015003-MS1)				Source: P004013-01 Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	596	20.0	mg/kg	250	295	120	80-120			
Matrix Spike Dup (2015003-MSD1)				Source: P004013-01 Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	607	20.0	mg/kg	250	295	125	80-120	1.75	20	M2

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State Bty	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/07/20 12:04

Notes and Definitions

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



envirotech
Analytical Laboratory

Ph (505) 632-1881. Fx (506) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: Spur

Samples Received: 4/9/2020

Job Number: 19054-0003

Work Order: P004024

Project Name/Location: Folk State SWD

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 4/10/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



Spur
PO Box 1058
Hobbs NM, 88240

Project Name: Folk State SWD
Project Number: 19054-0003
Project Manager: Kenny Kidd

Reported:
04/10/20 11:17

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Composite North SP1	P004024-01A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
Composite North SP2	P004024-02A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
Composite North SP3	P004024-03A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
Composite North SP4	P004024-04A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
Composite North SP5	P004024-05A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
Composite North	P004024-06A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
CSW1	P004024-07A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
CSW2	P004024-08A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
CSW3	P004024-09A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
CSW4	P004024-10A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
CSW5	P004024-11A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.
CSW6	P004024-12A	Soil	04/02/20	04/09/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

**Composite North SP1
P004024-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.9 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	11200	1250	mg/kg	50	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	5010	2500	mg/kg	50	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		116 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		93.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.9 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	25.1	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	-------------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

**Composite North SP2
P004024-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	3760	250	mg/kg	10	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	1860	500	mg/kg	10	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		96.1 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	562	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	------------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

**Composite North SP3
P004024-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		98.4 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	9690	500	mg/kg	20	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	1850	1000	mg/kg	20	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		95.3 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		93.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		98.4 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	38.3	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	-------------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

**Composite North SP4
P004024-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	4750	500	mg/kg	20	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	1040	1000	mg/kg	20	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		92.2 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

**Composite North SP5
P004024-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.5 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.5 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	4460	250	mg/kg	10	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	1980	500	mg/kg	10	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		120 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.5 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.5 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

**Composite North
P004024-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	7470	500	mg/kg	20	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	3510	1000	mg/kg	20	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	150	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	------------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

CSW1
P004024-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.0 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	30.3	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		86.2 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.0 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	46.1	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

CSW2
P004024-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		104 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	1260	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

CSW3
P004024-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.9 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		96.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		91.9 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.9 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		96.8 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	2430	100	mg/kg	5	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	------	-----	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

CSW4
P004024-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.9 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.6 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		93.9 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.6 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

CSW5
P004024-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		88.5 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	165	100	mg/kg	5	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	-----	-----	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

CSW6
P004024-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		93.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		95.3 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	41.8	25.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015016	04/09/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		89.3 %		50-200	2015016	04/09/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		93.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		95.3 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	490	40.0	mg/kg	2	2015021	04/09/20	04/09/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	-----------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015019 - Purge and Trap EPA 5030A

Blank (2015019-BLK1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

LCS (2015019-BS1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	2.15	0.0250	mg/kg	2.50		85.9	70-130			
Toluene	2.41	0.0250	"	2.50		96.4	70-130			
Ethylbenzene	2.42	0.0250	"	2.50		97.0	70-130			
p,m-Xylene	4.80	0.0500	"	5.00		95.9	70-130			
o-Xylene	2.40	0.0250	"	2.50		96.1	70-130			
Total Xylenes	7.20	0.0250	"	7.50		96.0	0-200			
Surrogate: 1,2-Dichloroethane-d4	0.490		"	0.500		98.0	70-130			
Surrogate: Toluene-d8	0.543		"	0.500		109	70-130			
Surrogate: Bromofluorobenzene	0.483		"	0.500		96.6	70-130			

Matrix Spike (2015019-MS1)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	2.10	0.0250	mg/kg	2.50	ND	84.1	48-131			
Toluene	2.36	0.0250	"	2.50	ND	94.5	48-130			
Ethylbenzene	2.39	0.0250	"	2.50	ND	95.6	45-135			
p,m-Xylene	4.74	0.0500	"	5.00	ND	94.7	43-135			
o-Xylene	2.36	0.0250	"	2.50	ND	94.5	43-135			
Total Xylenes	7.10	0.0250	"	7.50	ND	94.6	0-200			
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		99.0	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

Matrix Spike Dup (2015019-MSD1)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Benzene	2.30	0.0250	mg/kg	2.50	ND	91.8	48-131	8.82	23	
Toluene	2.62	0.0250	"	2.50	ND	105	48-130	10.4	24	
Ethylbenzene	2.65	0.0250	"	2.50	ND	106	45-135	10.3	27	
p,m-Xylene	5.24	0.0500	"	5.00	ND	105	43-135	10.1	27	
o-Xylene	2.63	0.0250	"	2.50	ND	105	43-135	10.7	27	
Total Xylenes	7.87	0.0250	"	7.50	ND	105	0-200	10.3	200	
Surrogate: 1,2-Dichloroethane-d4	0.505		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.535		"	0.500		107	70-130			
Surrogate: Bromofluorobenzene	0.494		"	0.500		98.7	70-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015016 - DRO Extraction EPA 3570

Blank (2015016-BLK1)

Prepared & Analyzed: 04/09/20 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	44.4		"	50.0		88.8	50-200			

LCS (2015016-BS1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 1

Diesel Range Organics (C10-C28)	471	25.0	mg/kg	500		94.2	38-132			
Surrogate: n-Nonane	47.3		"	50.0		94.7	50-200			

Matrix Spike (2015016-MS1)

Source: P004024-07

Prepared: 04/09/20 0 Analyzed: 04/09/20 1

Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500	30.3	97.9	38-132			
Surrogate: n-Nonane	44.7		"	50.0		89.3	50-200			

Matrix Spike Dup (2015016-MSD1)

Source: P004024-07

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Diesel Range Organics (C10-C28)	531	25.0	mg/kg	500	30.3	100	38-132	2.08	20	
Surrogate: n-Nonane	49.8		"	50.0		99.6	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015019 - Purge and Trap EPA 5030A

Blank (2015019-BLK1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

LCS (2015019-BS2)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Gasoline Range Organics (C6-C10)	52.2	20.0	mg/kg	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		"	0.500		98.1	70-130			
Surrogate: Toluene-d8	0.541		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		95.0	70-130			

Matrix Spike (2015019-MS2)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Gasoline Range Organics (C6-C10)	52.8	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		"	0.500		96.9	70-130			
Surrogate: Toluene-d8	0.539		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.485		"	0.500		97.0	70-130			

Matrix Spike Dup (2015019-MSD2)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Gasoline Range Organics (C6-C10)	51.9	20.0	mg/kg	50.0	ND	104	70-130	1.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.505		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.492		"	0.500		98.3	70-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

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

Batch 2015021 - Anion Extraction EPA 300.0/9056A

Blank (2015021-BLK1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	ND	20.0	mg/kg							
LCS (2015021-BS1)				Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (2015021-MS1)				Source: P004024-01 Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	278	20.0	mg/kg	250	25.1	101	80-120			
Matrix Spike Dup (2015021-MSD1)				Source: P004024-01 Prepared: 04/09/20 0 Analyzed: 04/09/20 2						
Chloride	280	20.0	mg/kg	250	25.1	102	80-120	0.416	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Spur	Project Name:	Folk State SWD	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Kenny Kidd	04/10/20 11:17

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - ** Methods marked with ** are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Project Information

Chain of Custody

Page 1 of 2

P004024

Client: <u>Spon Energy</u>				Bill To				Lab Use Only				TAT		EPA Program			
Project: <u>Elk State SWD</u>				Attention: <u>Natalie Gladden</u>				Lab WO# <u>RL</u>				1D 3D		RCRA CWA SDWA			
Project Manager: <u>Henry Kied</u>				Address:				<u>P004024</u>				<u>19054-0003</u>					
Address:				City, State, Zip				<u>4/9/20</u>				Analysis and Method		State			
City, State, Zip				Phone:										NM CO UT AZ			
Phone:				Email: <u>ngladden@Hungry-Horse.com</u>										TX OK			
Email:																	
Report due by:																	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	BDOC - TX	Remarks			
	4-2-2020	S	G	Composite North SPI	1							X					
				Composite North SP2	2												
				Composite North SP3	3												
				Composite North SP4	4												
				Composite North SP5	5												
				Composite North	6												
				CSW 1	7												
				CSW 2	8												
				CSW 3	9												
	4-2-2020	S	G	CSW 4	10							X					

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	April 2, 2020	3:48	<u>Natalie Gladden</u>	4/7/20	3:48	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<u>Natalie Gladden</u>	4/8/20	11:05	<u>[Signature]</u>	4-8-2020	1305	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<u>[Signature]</u>	4-8-2020	1640	<u>Rene Lopez</u>	4/9/20	9:30	4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com

Project Information

Chain of Custody

Page 2 of 2

Client: <u>Spar Energy</u>					Bill To					Lab Use Only				TAT		EPA Program							
Project: <u>Fair State SWD</u>					Attention: <u>Natalie Glaessen</u>					Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA					
Project Manager:					Address:					<u>P004024</u>		<u>19054-0003</u>		<u>X</u>									
Address:					City, State, Zip					Analysis and Method								State					
City, State, Zip					Phone:					DRO/ORO by 8015	GRO/DRQ by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC - TX		NM	CO	UT	AZ
Email:					Email: <u>nglaessen@Husky-Horse.com</u>														<u>X</u>				
Report due by:																							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																		
	<u>4.2 2020</u>	<u>S</u>	<u>G</u>	<u>CSW5</u>	<u>11</u>													<u>X</u>					
	<u>4.2 2020</u>	<u>S</u>	<u>G</u>	<u>CSW6</u>	<u>12</u>													<u>X</u>					

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>[Signature]</u>	<u>4.2 2020</u>	<u>3:48</u>	<u>[Signature]</u>	<u>4/7/20</u>	<u>3:48</u>	
<u>[Signature]</u>	<u>4/8/20</u>	<u>1:05</u>	<u>[Signature]</u>	<u>4-8-2020</u>	<u>1305</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	<u>4-8-2020</u>	<u>1640</u>	<u>[Signature]</u>	<u>4/9/20</u>	<u>9:30</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com



FOLK STATE #011 BATTERY

FINAL PHOTOS









State of New Mexico
Oil Conservation Division

Incident ID	NAB1919234395
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 OCD 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: Natalie Gladden Title: Director of Environmental and RegulatorySignature:  Date: 6/24/2020email: natalie@energystaffingllc.com Telephone: 575-390-6397**OCD Only**Received by: Victoria Venegas Date: 06/24/2020

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: CLOSURE DENIED Date: 09/30/2020Printed Name: Victoria Venegas Title: Engineering Tech. III

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Wednesday, September 30, 2020 10:40 AM
To: Kenny Kidd; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Eads, Cristina, EMNRD
Cc: spills@slo.state.nm.us; natalie@energystaffingllc.com
Subject: NAB1919234395 FOLK STATE #011 @ 30-015-37397
Attachments: (C-141 Closure) NAB1919234395 FOLK STATE #011 @ 30-015-37397.pdf

NAB1919234395 FOLK STATE #011 @ 30-015-37397

Mr. Kidd,

The OCD has denied the submitted Closure Report/Deferral Request C-141 for incident # NAB1919234395 FOLK STATE #011 @ 30-015-37397 for the following reasons:

- The Depth to groundwater has not been established. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, data should be no more than 25 years old, and well construction information should be provided: <http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf>. Therefore, the remediation levels outlined in Table 1 of 19.15.29 NMAC have not been established for this site.
- Vertical delineation, which is driven by depth to water, is incomplete because the depth to groundwater has not been established.
- Each confirmation floor sample was representative of ~6000 square feet, exceeding part 29 Closure Requirements by over 30 times.
- The OCD wants to clarify that the entire release area will not be deferred, only the sample points that are around production equipment such as production tanks, wellheads and pipelines. The release must be remediated to the fullest extent possible. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. All sample points, except the requested sample points for deferral, must have contaminated soil removed before a deferral request is uploaded to the payment portal.

The Denied C-141 can be found in the online image file. Please review and make the required correction prior to resubmitting through the fee portal.

Thank you,

Victoria Venegas
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 909-0269
Victoria.Venegas@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Desert Sand Water Well Services, LLC.

Soil Bore Report

General / Well Info	Customer: ESS/Spur Energy		Phone: 575-390-6397	Date: 5/10/20
	Well Name: Folk State		Location: 32.8336260, -104.0965154	

LOG OF WELL	DEPTH		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURES
	FROM	TO		
	0	3	3	TOP SOIL
	3	14	11	CHALECHE
	14	20	6	RED SAND/CLAY
	20	30	10	RED SAND
	30	78	48	ANHYDRITE / RED SNAD / CLAY
				LEFT BORE HOLE OPEN FOR 48 HOURS. UPON RETURNING THE BORE WAS
				STILL DRY AT 78'. PLUGGED BORE HOLE FROM THE BOTTOM UP
				WITH 3/8 HOLE PLUG (BENTONITE CHIP).

SPUR ENERGY PARTNERS

FOLK STATE #11 BATTERY
BOREHOLE MAP

Legend



32.8336260 -104.0965154

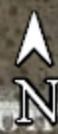


Old Loco Rd N

211

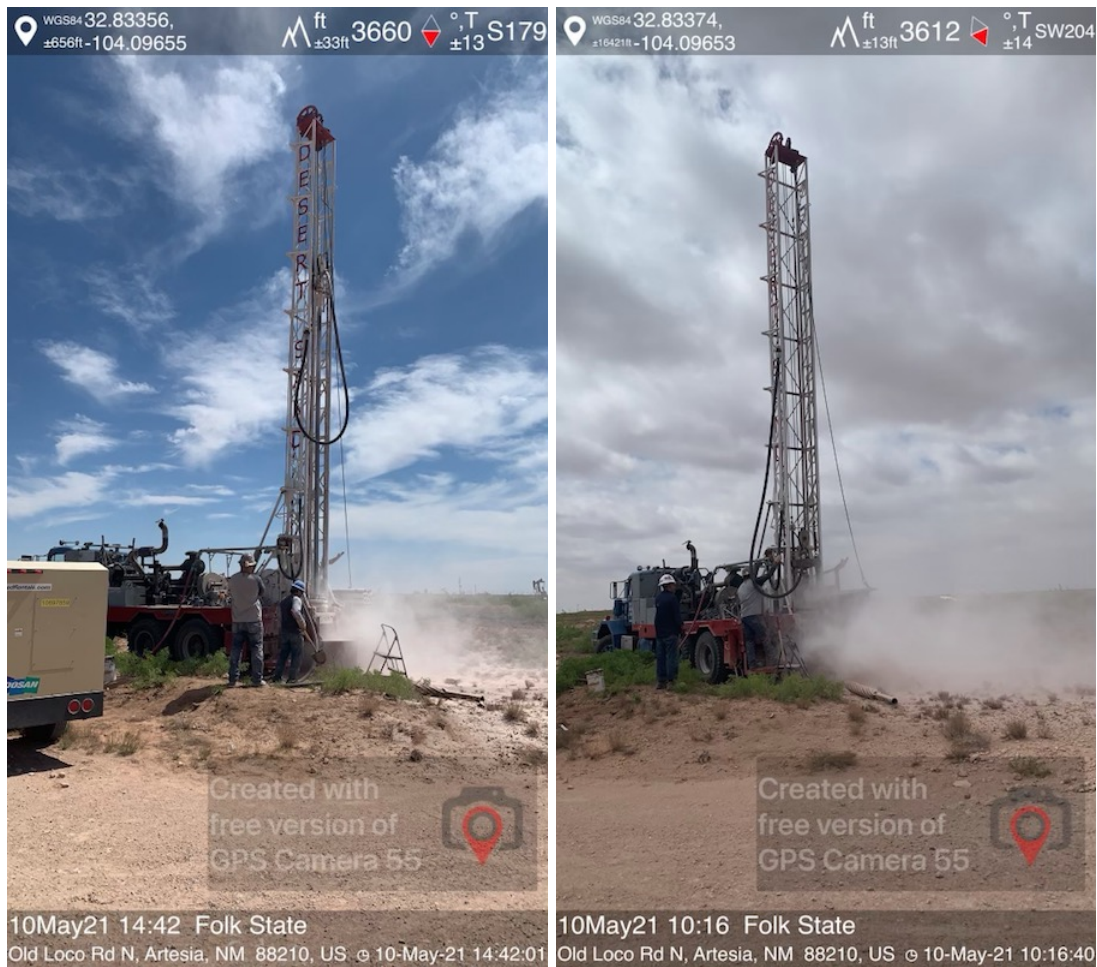
BOREHOLE

Earth Point



900 ft

FOLK STATE #11 BATTERY DRILLING PHOTOS





Incident ID	
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?

>78' BGS (ft bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☒ Yes ☐ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ No

Did the release impact areas **not** on an exploration, development, production, or storage site?

☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ 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.

Form C-141

State of New Mexico

Page 4

Oil Conservation Division

Incident ID	
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: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY

Signature: Natalie Gladden Date: 5/20/21email: NATALIE@ENERGYSTAFFINGLLC.COM Telephone: 575-390-6397**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORYSignature:  Date: 5-20-21email: NATALIE@ENERGYSTAFFINGLLC.COM Telephone: 575-390-6397**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY

Signature:  Date: 5/20/21

email: NATALIE@ENERGYSTAFFINGLLC.COM

Telephone: 575-390-6397

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: _____ Date: _____

Printed Name: _____ Title: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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: NATALIE GLADDEN Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORYSignature:  Date: 5-20-21email: NATALIE@ENERGYSTAFFINGLLC.COM Telephone: 575-390-6397**OCD Only**Received by: Chad Hensley Date: 07/01/2021☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature:  Date: 07/01/2021

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 29039

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 29039
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Spur's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	7/1/2021

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

QUESTIONS

Action 362267

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362267
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1919234395
Incident Name	NAB1919234395 FOLK STATE #011 @ 30-015-37397
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-37397] FOLK STATE #011

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FOLK STATE #011
Date Release Discovered	06/12/2019
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 112 BBL Recovered: 80 BBL Lost: 32 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2
Action 362267

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	362267
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	n/a

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 07/09/2024
--	--

District I

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

District II

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

District III

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

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

QUESTIONS, Page 3

Action 362267

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	362267
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	672
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4840
GRO+DRO	(EPA SW-846 Method 8015M)	4840
BTEX	(EPA SW-846 Method 8021B or 8260B)	1.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/09/2023
On what date will (or did) the final sampling or liner inspection occur	02/23/2024
On what date will (or was) the remediation complete(d)	02/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	760
What is the estimated volume (in cubic yards) that will be reclaimed	146
What is the estimated surface area (in square feet) that will be remediated	2000
What is the estimated volume (in cubic yards) that will be remediated	450

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 362267

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	362267
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 07/09/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 362267

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	362267
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	REQUESTING TO LEAVE AFFECTED SOIL AROUND STORAGE TANK AND PIPELINES DUE TO SAFETY CONCERNS OF WEAKENING THE STRUCTURAL INTEGRITY OF THE PRODUCTION EQUIPMENT WITH THE BATTERY WHICH COULD LEAD TO MORE LEAKS
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2000
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	450
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (F#) on which this deferral should be granted	Folk State 11 Tank Battery [fAPP2201051330]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 07/09/2024

District I

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

District II

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

District III

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

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

QUESTIONS, Page 6

Action 362267

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	362267
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	296871
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2023
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
--	----

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 362267

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362267
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral is approved for incident nAB1919234395 of application 362267 of an area of 2,000sqft/450cubic yards per the report at Location Tank 4-E. Per 19.15.29.12.C.(2). If the contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, resortation and reclamation may be deferred with division written approved until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	8/8/2024