Environmental & Safety Solutions, Inc.

Electronic Correspondence

August 28, 2018

APPROVED
By Olivia Yu at 8:24 am, Aug 29, 2018

NMOCD approves of the remedial work conducted and grants backfill approval for 1RP-5091.

Ms. Olivia Yu
Environmental Specialist, District I
Oil Conservation Division, EMNRD
Olivia.yu@state.nm.us

Mr. Ryan Mann
Remediation Specialist
Field Operation Division
New Mexico State Land Office
rmann@slo.state.nm.us

Re: Backfill Request 1RP-5091
Former DCP Pump Station Historical Release
Legal: Unit F, Sec 4, T22S R36E, Lea County, NM
Latitude/Longitude: 32.422898/ -103.274162
Etech Proj. Number: 876-9521-000
Depth to Groundwater: 200-275 feet - Chevron/Texaco Lea County Depth to Groundwater Map
- OSE NM Water Rights Reporting System
Release Type: Produced Water

Contaminants of Concern (COCs)	Threshold Levels
TPH	5000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg
Chlorides	600 mg/kg

Dear Olivia and Ryan:

Etech Environmental & Safety Solutions, Inc. (Etech) is submitting the following corrective action plan on the aforementioned site for your review and approval.

Background

On February 21, 2018, a Phase I Environmental Site Assessment (ESA) inspection was conducted by a third party at the 8.33 acre former DCP pump station site. Of particular interest was a possibly impacted area which had been identified from historical aerial photos and is located approximately one hundred and forty (140) feet south of the former pump station's concrete pad. The possibly impacted area measures approximately seventy (70) feet in length and fifty (50) feet in width and covers an area of approximately three thousand five hundred (3,500) square feet.

Concurrent with the Phase I ESA inspection, three (3) soil samples were collected by hand auger from two (2) locations of the possibly impacted area (See Attachment B - Annotated Aerial Imagery). Hand auger refusal occurred at a depths of three (3) and three and a half (3.5) feet below ground surface (bgs)

where a hard layer of competent caliche was encountered. The soil samples were submitted to Cardinal Laboratories (Cardinal) and analyzed for TPH, benzene, BTEX, chloride, and pH. The laboratory results determined that the TPH levels ranged from 6,770 mg/kg to 39,573 mg/kg. Benzene levels ranged from no analytical detection to 0.318 mg/kg. BTEX levels ranged from no analytical detection to 14.2 mg/kg. Chloride levels ranged from no analytical detection to 32 mg/kg. (See Attachment B - Annotated Aerial Imagery and Table 1 Summary of Delineation Sampling Analytical Results below).

On July 2, 2018, Etech conducted additional delineation sampling at the site. Basin Environmental excavated two test trenches labeled Test Trench 1 and Test Trench 2 utilizing an excavator. Three (3) soil samples were collected from the Test Trench 1 location and four (4) soil samples were collected from the Test Trench 2 location. The soil samples were submitted to Permian Basin Environmental Laboratory (PBELAB) and analyzed for chloride, TPH, benzene, and BTEX. The laboratory results determined that the chloride levels ranged from no analytical detection to 59.1 mg/kg and were below the regulatory guideline of 600 mg/kg. TPH levels ranged from no analytical detection to 34,400 mg/kg. BTEX levels ranged from no analytical detection to 0.152 mg/kg. Benzene levels indicated no analytical detection for all soil samples. (See Attachment B - Annotated Aerial Imagery and Table 1 Summary of Delineation Sampling Analytical Results below).

Depth to Groundwater Data

Depth to groundwater data was obtained from the Chevron/Texaco Lea County Depth to Groundwater Map and the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System.

The Former DCP Pump Station location lies between the 250 foot and 275 foot ground water contour lines as depicted on the Chevron/Texaco Lea County Depth to Groundwater Map. This correlates well with the water depths displayed in the OSE Water Column/ Average Depth to Water Table.

Attachment D contains an image of the pertinent area of the Chevron/ Texaco Lea County Depth to Groundwater Map with the location of the Former DCP Pump Station denoted, and the OSE Water Column/ Average Depth to Water Table.

Site Ranking Score and Recommended Remediation Action Levels

The New Mexico Oil Conservation Division publication entitled “Guidelines for Remediation of Leaks, Spills and Releases” (August 13, 1993) provides ranking criteria for the setting of recommended remediation action levels for release sites in New Mexico. Per these criteria the following ranking was calculated:

<u>Criteria Value Ranking</u>

Depth to Groundwater greater than 100 feet = 0

Wellhead Protection Area Greater than 1,000 feet from a water source and greater than 200 feet from a private domestic water source = 0

Distance to Surface Water Body Greater than 1,000 feet = 0

Total Ranking = 0

The recommended remediation action levels for a site that displays a total ranking of zero (0) to nine (9) are:

TPH – 5000 mg/kg

Benzene – 10 mg/kg

BTEX – 50 mg/kg

Chloride – 600 mg/kg

Work Performed

On August 12, 2018, Etech returned to the site to conduct oversight of remediation field activities performed by Basin Environmental Inc. and perform delineation and confirmation soil sampling. Field activities began with the locating of a two (2) inch steel flow on the north boundary of the impacted area. A line locator and excavator were utilized to locate and uncover the steel flow line which continued beneath the ground approximately ten (10) feet into the impacted area. A concrete support approximately two (2) feet to three (3) feet in width and length and one (1) foot to one and a half (1.5) feet thick encased the steel line at the north boundary of the impacted area.

Excavation began on the east side of the impacted area to an initial depth of six and half (6.5) feet bgs. The concrete support was removed from around the steel line and steel line was completely exposed and found to be uncapped. Discoloration and stain was found near the end of the steel line. The line was observed to be very slowly dripping water. The line was then traced back to the pump station pad to the north. The excavator was utilized to remove the steel line from the excavation to the pump station pad where it was placed on the concrete pad.

Excavation continued westward across the site. Due to the amount of discoloration of the soils beyond the middle of the site excavation, excavation was conducted to five (5) feet bgs until arriving at the far west side of the site where soils were not impacted at four (4) feet bgs. In addition, a heavily stained area was discovered in the northwest portion of the impacted area. All excavated soil was staged inside the impacted area and then removed and placed on 6 mil plastic utilizing a front end loader.

Excavation began on the south portion of the impacted area. Excavation to a depth of four (4) to five (5) feet bgs was conducted on the west side of the impacted area and to a depth of six and half (6.5) feet bgs on the east side of the area. A heavily stained area was also observed in the south central portion of the impacted area. Further observation displayed discolored areas on the south wall of the excavation and additional excavation of the wall was conducted.

Excavation of the stained and discolored areas was conducted. The area in the south central portion of the site was excavated to a depth of twelve feet bgs. The area in the north central portion of the site near the end of the steel line was excavated to a depth of twelve feet bgs. The area in the northwest portion of the site was excavated to a depth of fourteen (14) feet bgs (See Attachment B – Annotated Aerial Imagery for configuration and depth of excavation).

On August 14, 2018, Etech collected five confirmation soil samples labeled BH 2 (Bottom Hole 2), ESW (East Sidewall), WSW (West Sidewall), NSW 1(North Sidewall 1), and NSW 2 (North Sidewall 2) from the excavated area (see Attachment B – Annotated Aerial Imagery for sample locations). The soil samples were submitted to Cardinal Laboratories and analyzed for TPH, benzene, and BTEX. The laboratory results determined that the TPH levels ranged from no analytical detection to 1,253 mg/kg. All benzene levels and BTEX levels were no analytical detection (See Table 2 Summary of Remediation Sampling Analytical Results below).

On August 15, 2018, Etech collected five confirmation soil samples labeled BH 3 (Bottom Hole 3), NESW 1 (Northeast Sidewall 1), SESW 1 (Southeast Sidewall 1), SWSW 1 (Southwest Sidewall 1), and NWSW 1 (Northwest Sidewall 1) from the south central excavated area (see Attachment B – Annotated Aerial Imagery for sample locations). The soil samples were submitted to Cardinal Laboratories and analyzed for TPH, benzene, and BTEX. The laboratory results determined that the TPH levels ranged from no analytical detection to 11,250 mg/kg. All benzene levels were no analytical detection. BTEX levels ranged from no analytical detection to 0.517 mg/kg (See Table 2 Summary of Remediation Sampling Analytical Results below).

On August 16, 2018, Etech collected nine (9) confirmation soil samples labeled BH 1 (Bottom Hole 1), BH 5 (Bottom Hole 5), SSW 1 (South Sidewall 1), SSW 2 (South Sidewall 2), BH 4 (Bottom Hole 4), NESW 2 (Northeast Sidewall 2), SESW 2 (Southeast Sidewall 2), SWSW 2 (Southwest Sidewall 2), and NWSW 2 (Northwest Sidewall 2). This sampling event included sampling of the excavated north central heavily stained area (see Attachment B – Annotated Aerial Imagery for sample locations). The soil samples were submitted to Cardinal Laboratories and analyzed for TPH, benzene, and BTEX. The laboratory results determined that the TPH levels ranged from no analytical detection to 15,066 mg/kg. All benzene levels were no analytical detection. BTEX levels ranged from no analytical detection to 32.3 mg/kg (See Table 2 Summary of Remediation Sampling Analytical Results below).

On August 17, 2018, Etech collected six (6) confirmation soil samples labeled SESW 1A (Southeast Sidewall 1A), BH 6 (Bottom Hole 6), NESW 3 (Northeast Sidewall 3), SESW 3 (Southeast Sidewall 3), SWSW 3 (Southwest Sidewall 3), and NWSW 3 (Northwest Sidewall 3) and one (1) delineation soil sample labeled TT 1 (Test Trench 1). This sampling event included sampling of the excavated northwest heavily stained area and additionally excavated southeast wall of the south central heavily stained area (see Attachment B – Annotated Aerial Imagery for sample locations). The soil samples were submitted to Cardinal Laboratories and analyzed for TPH, benzene, and BTEX. The laboratory results determined that the TPH levels ranged from 216 mg/kg to 31,120 mg/kg. All benzene levels and BTEX levels were no analytical detection (See Table 1 Summary of Delineation Sampling Analytical Results and Table 2 Summary of Remediation Sampling Analytical Results below).

On August 20, 2018 through August 22, 2018, additional excavation was conducted at the site that changed the configuration and depths of the prior excavations. The additional excavation resulted in one larger excavation of varying depths. The most prominent change was observed at the north central excavation which was excavated to depths of twenty (20) feet and twenty-nine (29) feet bgs (See Attachment B – Annotated Aerial Imagery for configuration and depths of excavation).

On August 22, 2018, Etech collected eleven (11) confirmation soil samples labeled BH 8 (Bottom Hole 8), NESW 4 (Northeast Sidewall 4), SESW 4 (Southeast Sidewall 4), SWSW 4 (Southwest Sidewall 4), NWSW 4 (Northwest Sidewall 4), SESW 3A (Southeast Sidewall 3A), BH 7 (Bottom Hole 7), NSW 3 (North Sidewall 3), SSW 3 (South Sidewall 3), BH 4A (Bottom Hole 4A), and NESW 2A (Northeast Sidewall 2A). (See Attachment B – Annotated Aerial Imagery for sample locations). The soil samples were submitted to Cardinal Laboratories and analyzed for TPH, benzene, and BTEX. The laboratory results determined that the TPH levels ranged from 11.4 mg/kg to 11,233 mg/kg. All benzene levels were no analytical detection. BTEX levels ranged from no analytical detection to 3.69 mg/kg. (See Table 2 Summary of Remediation Sampling Analytical Results below).

On August 24, 2018, further excavation was conducted at the NESW 3 (Northeast Sidewall 3) location. One confirmation soil sample labeled NESW 3A (Northeast Sidewall 3A) was collected and submitted to Cardinal Laboratories and analyzed for TPH, benzene, and BTEX. The laboratory results determined that the TPH level was 134 mg/kg. All benzene and BTEX levels were no analytical detection (See Table 2 Summary of Remediation Sampling Analytical Results below).

All excavated soils were hauled and disposed at J&L Landfarm, Hobbs, New Mexico.

Table 1
Summary of Delineation Sampling Analytical Results

Sample ID	Depth	Date	C6-C12	>C12-C28	>C28-C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
S-1*	6”	2/21/18	ND	14,200	6,730	**20,930**	ND	ND	ND
S-1*	3.5’	2/21/18	ND	5,240	1,530	**6,770**	ND	ND	32
S-2*	3’	2/21/18	243	29,400	9,930	**39,573**	0.318	14.2	32

Test Trench 1	4.5’	7/02/18	ND	16,400	3,790	**20,100**	ND	ND	NA
Test Trench 1	5.5’	7/02/18	1,140	27,400	5,870	**34,400**	ND	0.152	11.9
Test Trench 1	6.5’	7/02/18	ND	85.4	42.4	128	ND	ND	NA
Test Trench 2**	0-6”	7/02/18	NA	NA	NA	NA	NA	NA	ND
Test Trench 2	4.0’	7/02/18	ND	118	ND	118	ND	ND	NA
Test Trench 2	5.5’	7/02/18	ND	1,560	390	1,950	ND	ND	59.1
Test Trench 2	6.5’	7/02/18	ND	ND	ND	ND	ND	ND	NA
TT 1	7.5’	8/16/18	ND	ND	ND	ND	ND	ND	NA

*denotes collected by third party
ND denotes no analytical detection
Bold denotes analytical results above regulatory guidelines
NA denotes not analyzed
**denotes collected by hand auger

Table 2
Summary of Remediation Sampling Analytical Results

Sample ID	Depth	Date	C6-C12	>C12-C28	>C28-C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
BH 2	5’	8/14/18	ND	32.3	ND	32.3	ND	ND	NA
WSW	2’	8/14/18	ND	727	526	1,253	ND	ND	NA
ESW	4’	8/14/18	ND	ND	ND	ND	ND	ND	NA
NSW 1	4’	8/14/18	ND	168	41.7	209.7	ND	ND	NA
NSW 2	3’	8/14/18	ND	ND	ND	ND	ND	ND	NA
BH 3	12’	8/15/18	ND	1,180	356	1,536	ND	ND	NA
NESW 1	9’	8/15/18	ND	ND	ND	ND	ND	ND	NA
SESW 1	9’	8/15/18	ND	7,150	4,100	**11,250**	ND	ND	NA
SWSW 1	9’	8/15/18	ND	3,550	976	4,526	ND	0.517	NA
NWSW 1	9’	8/15/18	ND	3,990	810	4,800	ND	ND	NA
BH 1	6.5’	8/16/18	ND	ND	ND	ND	ND	ND	NA
BH 5	5’	8/16/18	ND	21.0	ND	21.0	ND	ND	NA
SSW 1	3’	8/16/18	ND	ND	ND	ND	ND	ND	NA
SSW 2	2’	8/16/18	ND	ND	ND	ND	ND	ND	NA
BH 4	12’	8/16/18	596	11,800	2,670	**15,066**	ND	32.3	NA
NESW 2	9’	8/16/18	579	8,000	1,450	**10,029**	ND	17.4	NA
SESW 2	9’	8/16/18	175	7,010	2,450	**9,635**	ND	4.08	NA
SWSW 2	9’	8/16/18	229	7,640	1,800	**9,669**	ND	ND	NA
NWSW 2	9’	8/16/18	280	9,690	2,670	**12,640**	ND	ND	NA
SESW 1A	9’	8/17/18	ND	202	45.9	247.9	ND	ND	NA
BH 6	14’	8/17/18	ND	189	27.0	216	ND	ND	NA
NESW 3	11’	8/17/18	130	26,000	4,990	**31,120**	ND	ND	NA
SESW 3	11’	8/17/18	ND	7,170	876	**8,046**	ND	ND	NA
SWSW 3	11’	8/17/18	ND	193	28.6	221.6	ND	ND	NA
NWSW 3	11’	8/17/18	ND	1,250	187	1,437	ND	ND	NA

BH 8	29’	8/22/18	ND	16.2	ND	16.2	ND	ND	NA
NESW 4	26’	8/22/18	103	2,920	331	3,354	ND	0.944	NA
SESW 4	26’	8/22/18	ND	18.4	ND	18.4	ND	ND	NA
SWSW 4	26’	8/22/18	ND	228	17.6	245.6	ND	ND	NA
NWSW 4	26’	8/22/18	95.4	3,600	375	4,070	ND	0.829	NA
SESW 3A	14’	8/22/18	ND	32.9	ND	32.9	ND	ND	NA
BH 7	17’	8/22/18	ND	389	50.0	439	ND	ND	NA
NSW 3	14’	8/22/18	113	9,750	1,370	**11,233**	ND	0.371	NA
SSW 3	14’	8/22/18	ND	11.4	ND	11.4	ND	ND	NA
BH 4A	20’	8/22/18	113	3,720	563	4,396	ND	0.625	NA
NESW 2A	17’	8/22/18	349	4,110	419	4,878	ND	3.69	NA
NSW 3A	14’	8/24/18	ND	108	26.2	134	ND	ND	NA

ND denotes no analytical detection
Bold denotes analytical results above regulatory guidelines
NA denotes not analyzed

Conclusion

TPH, benzene, and BTEX are the only identified constituents of concern since chloride concentrations were no analytical detection to 59.1 mg/kg as indicated by delineation sampling. Therefore, only TPH, benzene, and BTEX are being analyzed during remediation, and the corrective action goal for this project is five thousand (5,000) mg/kg for TPH, ten (10) mg/kg for benzene, and fifty (50) mg/kg for BTEX. Sample results indicate that corrective action goals and regulatory guidelines have been met for this site. Therefore, Etech requests approval to complete the following activities:

The excavation will be backfilled with caliche and then top soil of the kind removed and seeded with NMSLO Sandy (S) seed mix (See Attachment E - NMSLO Seed Mixes). The seeded area will be monitored for growth and the operator will repeat seeding until a successful vegetative cover is achieved.

Notifications and Special Conditions

1. The OCD and SLO will be notified prior to the commencement of on-site operations.
2. A report documenting the results of the remediation activities will be submitted to the OCD and SLO.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact me at (432) 563-2200 (office) or via email at geoff@etechenv.com.

Respectfully:

Geoff Leking,
Project Manager
Etech Environmental & Safety Solutions, Inc.

Attachment A
Initial C-141

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Report

Name of Company Goodnight Midstream	Contact Ralph Tijerina
Address 5910 N. Central Expy. Suite 850 Dallas, Tx 75206	Telephone No. 214-444-7001
Facility Name Former DCP Operating Company, LP (DCP) Pump Station	Facility Type Pump Station

Surface Owner State	Mineral Owner State	API No. 30-025-08769 (non related closest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	04	22S	36E	1900	North	1490	West	Lea

Latitude 32.422898 **Longitude** -103.274162 NAD83

NATURE OF RELEASE

Type of Release Crude oil	Volume of Release Unk	Volume Recovered Unk
Source of Release Unk	Date and Hour of Occurrence Historical	Date and Hour of Discovery Historical
Was Immediate Notice Given? ☐ Yes ☐ No X Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
By Olivia Yu at 1:24 pm, Jun 13, 2018

Describe Cause of Problem and Remedial Action Taken.*
In the early 1960s a pump station was operated on the subject property. At an unknown time a release(s) from an unknown source occurred approximately one hundred forty (140) feet south of the pump station's concrete pad.

Describe Area Affected and Cleanup Action Taken.*
The release(s) affected an area approximately seventy (70) feet long by fifty (50) feet wide in the pasture south of the pump station. Initial delineation soil samples were collected by a third party utilizing an hand auger on February 21, 2018. Initial soil sampling indicates impact exists to depths of three (3) and three and a half (3.5) feet below ground surface (bgs) where hand auger refusal was observed. A delineation work plan for further delineation of the impact is attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

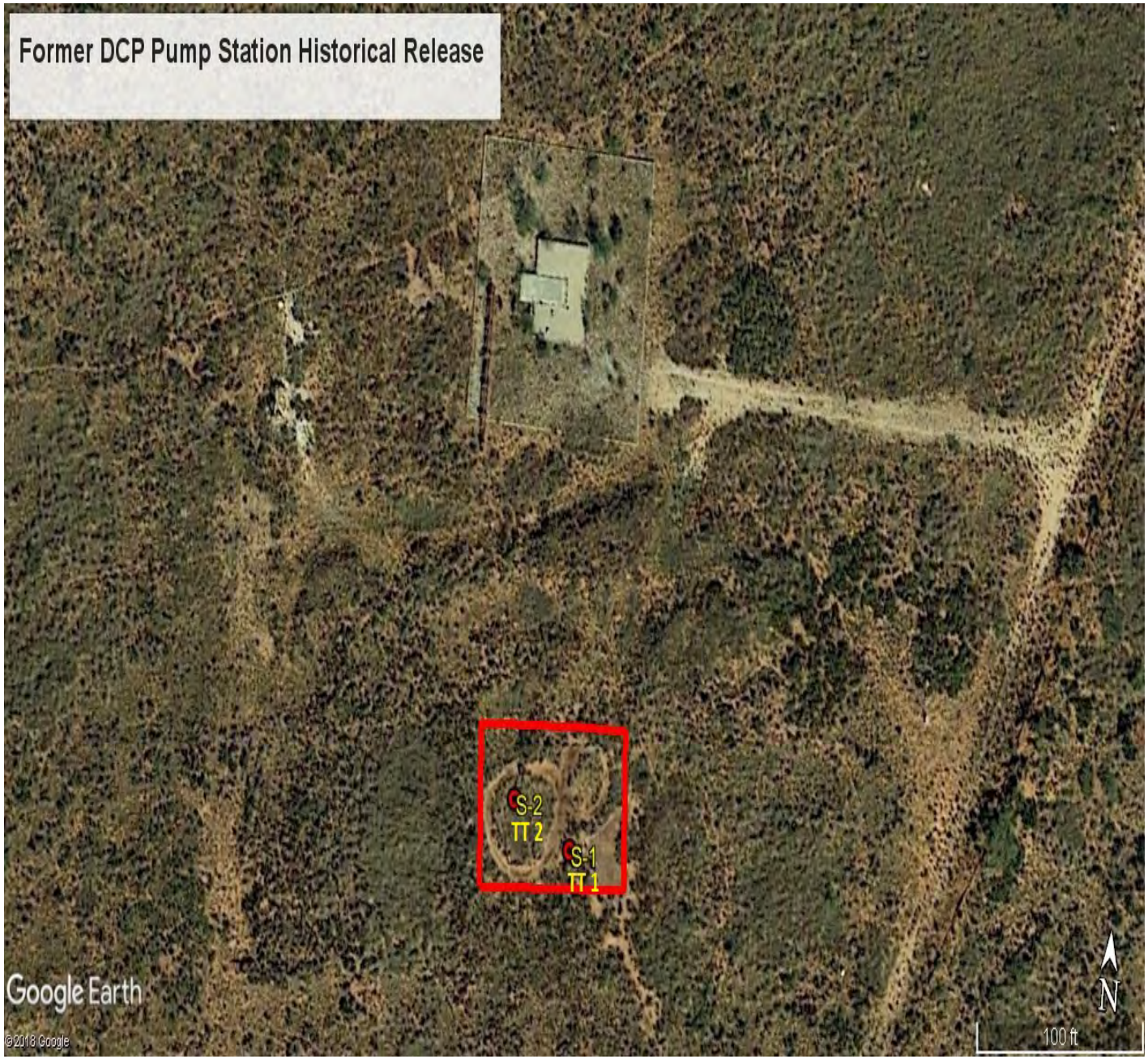
Signature: Ralph Tijerina	OIL CONSERVATION DIVISION
Printed Name: Ralph Tijerina	Approved by Environmental Specialist:
Title: EHS Director	Approval Date: 6/13/2018 Expiration Date:
E-mail Address: rtijerina@goodnightmidstream.com	Conditions of Approval: see attached directive Attached ☑
Date: 6/12/18 Phone: 2144447001	

* Attach Additional Sheets If Necessary

1RP-5091
nOY1816448589
pOY1816448635
fOY1816448404

Attachment B
Annotated Aerial Imagery

Delineation & Assessment Report ©	Lease Name:	Former DCP Pump Statipon	Case No.:	1RP-5091
	Date Assessed:	Feb 21, 2018 and July 2, 2018		



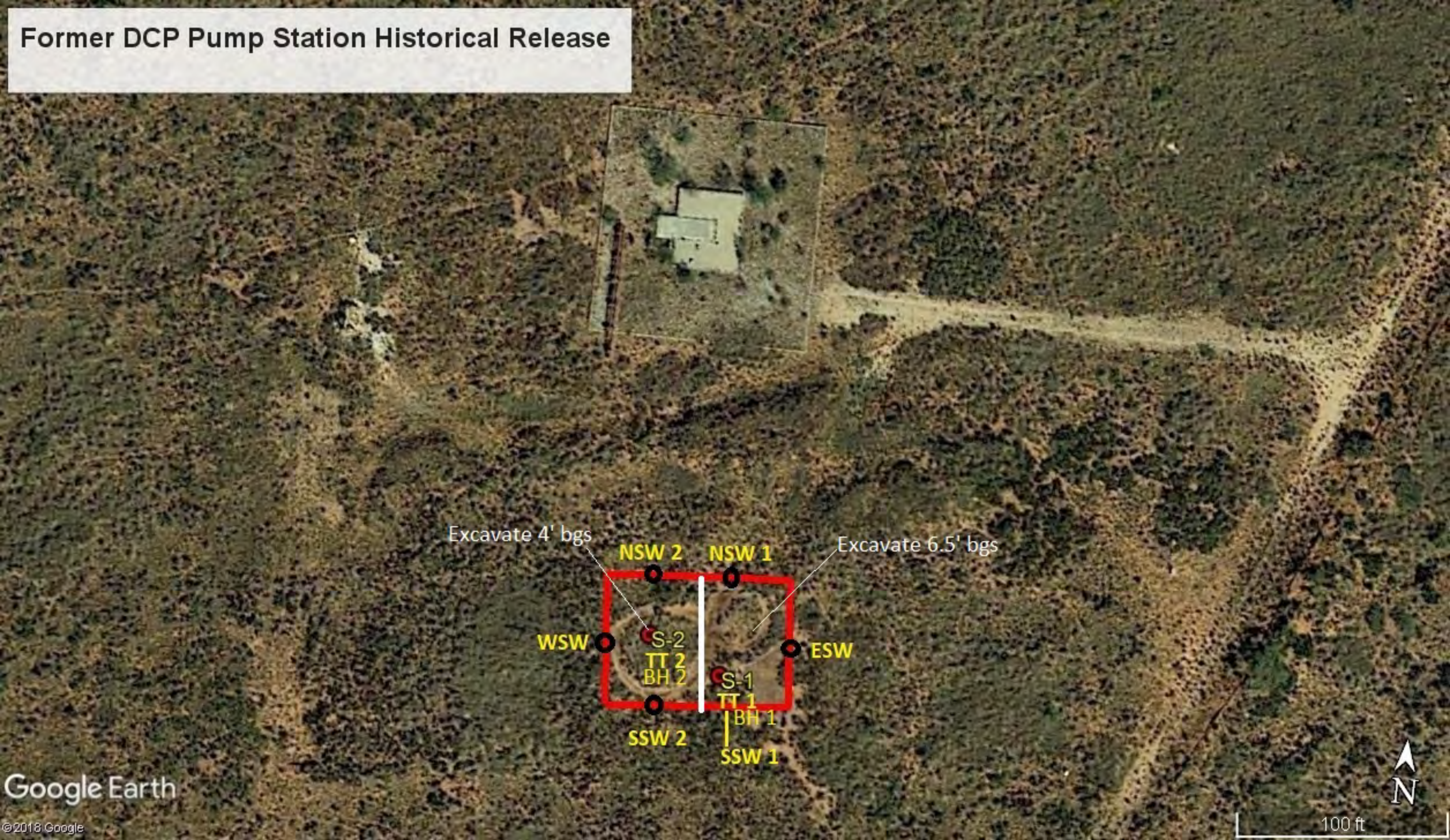
	Assessment Results		
Sample I. D.	Depth (ft.)	TPH (mg/kg)	Chlorides (mg/kg)
S-1	0.5	**20,930**	ND
S-1	3.5	**6,770**	32
S-2	3.0	**39,573**	32
TT 1	4.5	**20,100**	NA
TT 1	5.5	**34,400**	11.9
TT 1	6.5	128	NA
TT 2	0.5	NA	ND
TT 2	4.0	118	NA
TT 2	5.5	1,950	59.1
TT 2	6.5	ND	NA

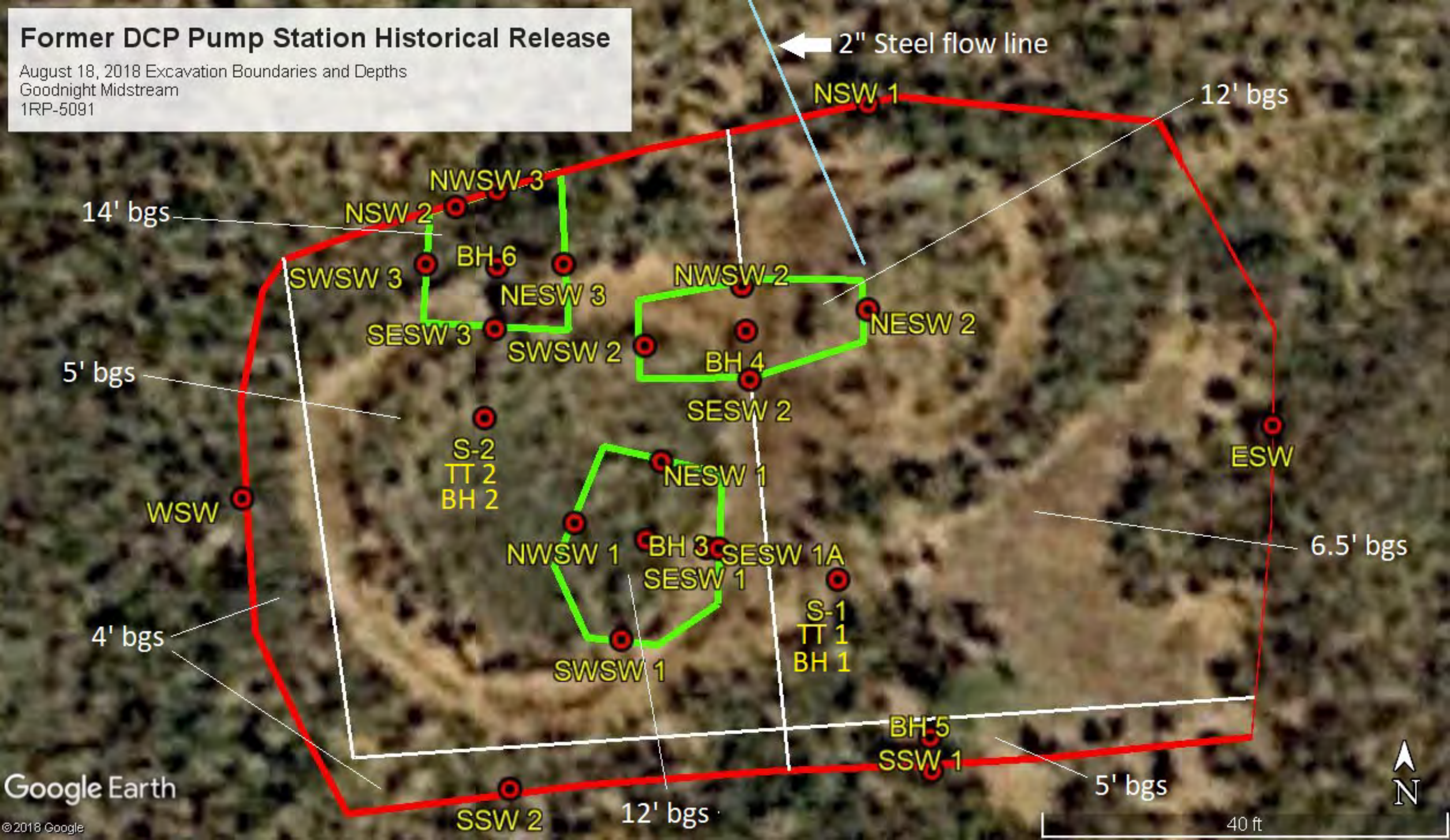
Bold denotes analytical results above regulatory guidelines

ND denotes no analytical detection

NA denotes not analyzed

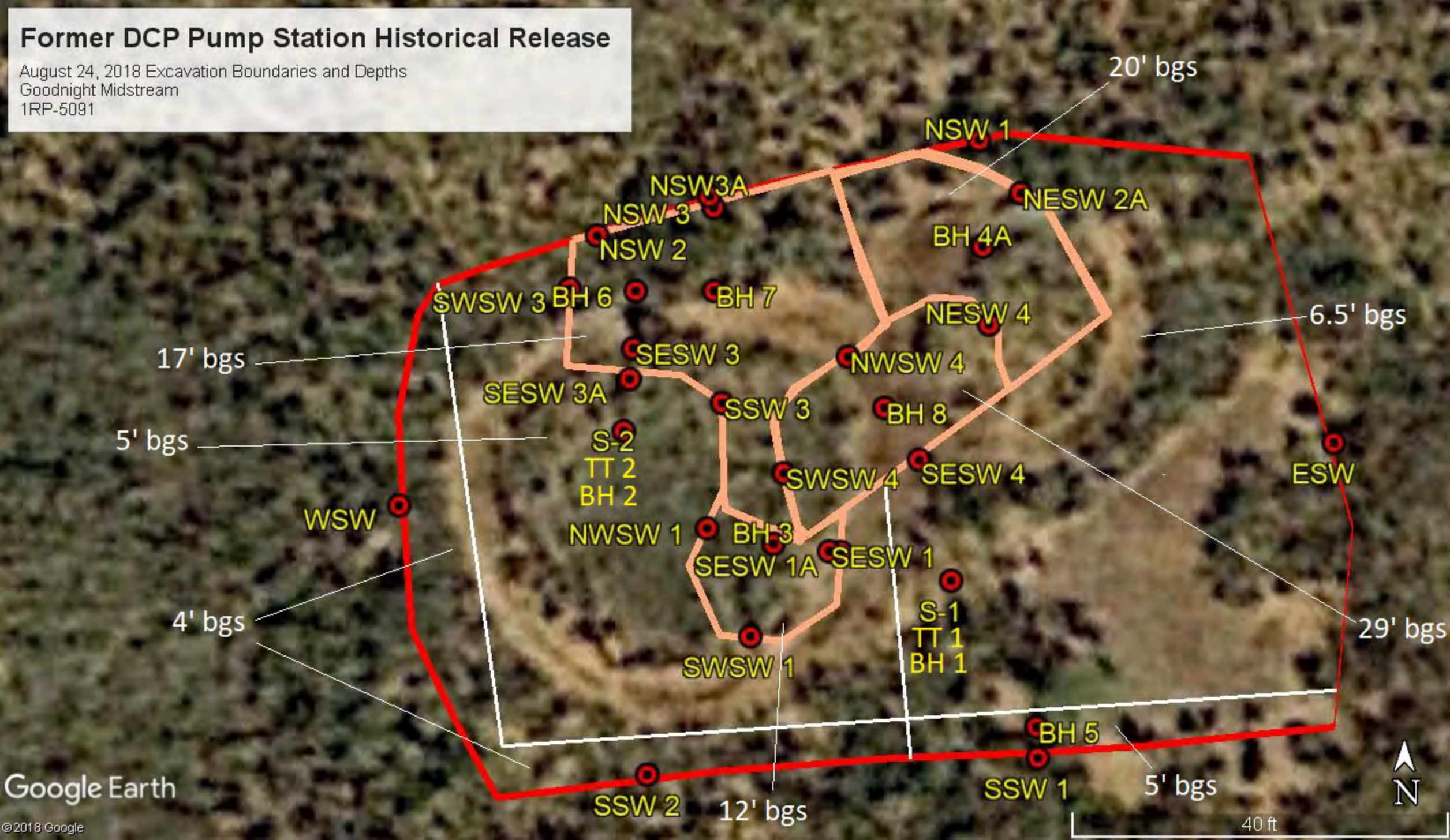
Former DCP Pump Station Historical Release




Former DCP Pump Station Historical Release
August 18, 2018 Excavation Boundaries and Depths
Goodnight Midstream
1RP-5091
2" Steel flow line
NSW 1
12' bgs
NWSW 3
NSW 2
14' bgs
BH 6
SWSW 3
NESW 3
NWSW 2
NESW 2
SESW 3
SWSW 2
BH 4
5' bgs
SESW 2
S-2
TT 2
BH 2
ESW
NESW 1
WSW
NWSW 1
BH 3
SESW 1A
SESW 1
6.5' bgs
S-1
TT 1
BH 1
4' bgs
SWSW 1
BH 5
SSW 1
5' bgs
SSW 2
12' bgs
Google Earth
© 2018 Google
N
40 ft

Former DCP Pump Station Historical Release

August 24, 2018 Excavation Boundaries and Depths
Goodnight Midstream
1RP-5091



Attachment C
Photograph Log

View of release looking northwest.

View of auger hole S-1.

View of Test Trench 1 after excavation looking south.

View of Test Trench 2 after excavation looking south.

View of Test Trench 1 after backfilling looking west.

View of Test Trench 2 after backfilling looking west.

View of uncovering 2” steel flow line looking southwest.

Laying down plastic looking southwest.

Excavation in northeast portion of site with 2” steel flow line extending into excavation looking northwest.

Placing excavated soils on plastic looking southwest.

Discolored soils near end of 2” steel flow line looking south.

Loading excavated soil into dump trucks looking southwest.

Excavating discolored area in northwest portion of site looking southwest.

Northwest portion of excavation looking northwest.

Northwest portion of excavation looking southwest.

North central portion of site excavated to 29 feet bgs looking southeast.

East side of site looking east.

Northeast portion of site looking northeast.

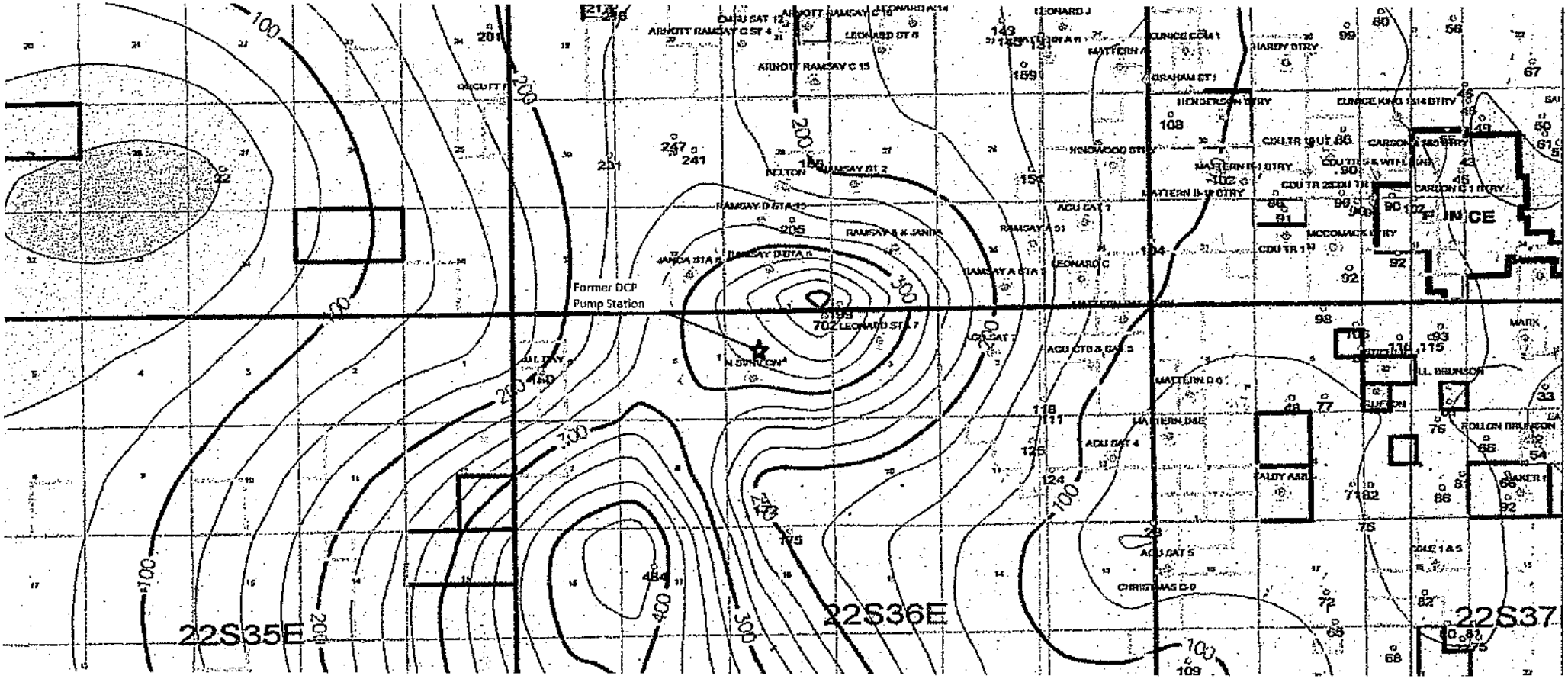
Soil sample locations BH 7 (foreground) and BH 6 looking west.

Soil sample locations BH 7 (foreground) and NSW 3 looking northeast .

Picking up last of excavated soil for hauling to J&L Landfarm looking northwest.

Site after all excavated soil was loaded and hauled looking southwest.

Attachment D
Depth to Groundwater Data


Former DCP
Pump Station
22S35E
22S36E
22S37
100
200
300
400
FINCE

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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00727		CP	LE	1	3	2	05	22S	36E	661130	3588673*	1143	267	212	55
CP 00727 CLW475753	O	CP	LE	1	3	2	05	22S	36E	661130	3588673*	1143	228		
L 11013	C	L	LE			3	10	22S	36E	663892	3586402*	2748	222		
CP 01318 POD2		CP	LE	3	3	3	10	22S	36E	663672	3586106	2879	260	180	80
CP 00469		CP	LE	1	2	3	06	22S	36E	659127	3588245*	3167	220	195	25
CP 01469 POD1		CP	LE	2	2	2	18	22S	36E	660234	3585869	3426	200	140	60
CP 00070		CP	LE	2	2	3	16	22S	36E	662604	3585071*	3567	220	170	50
CP 00070 CLW472929	O	CP	LE	2	2	3	16	22S	36E	662604	3585071*	3567	220	170	50
CP 00764 POD1		CP	LE	2	1	4	16	22S	36E	663006	3585079*	3619	4700	4000	700
CP 00539		CP	LE	4	3	2	30	21S	36E	659663	3591676*	4016	270	240	30
CP 00760 POD1		CP	LE	1	4	4	35	21S	36E	666347	3589567*	4182	5000		
CP 00761 POD1		CP	LE	4	3	1	01	22S	36E	666964	3588569*	4692	5000		

Average Depth to Water: **663 feet**

Minimum Depth: **140 feet**

Maximum Depth: **4000 feet**

Record Count: 12

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 662272.3 **Northing (Y):** 3588623.13 **Radius:** 4838.7

***UTM location was derived from PLSS - see Help**

Attachment E
NMSLO Seed Mixes

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
	Total PLS/acre	17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.

NMSLO Seed Mix — Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
	Total PLS/acre	**16.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

Attachment F
Analytical Results

CARDINAL Laboratories

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

February 22, 2018

ALAN KANE

KANE ENVIROMENTAL

8816 BIG VIEW DRIVE

AUSTIN, TX 78730

RE: 8.33 ACRE SITE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/18 13:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

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

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

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

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 3-3.5'	H800521-01	Soil	21-Feb-18 11:20	21-Feb-18 13:03
S-1 0-6"	H800521-02	Soil	21-Feb-18 11:10	21-Feb-18 13:03
S-2 2.5-3'	H800521-03	Soil	21-Feb-18 11:45	21-Feb-18 13:03

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

S-1 3-3.5'

H800521-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	8022201	AC	22-Feb-18	4500-Cl-B	
pH*	**7.83**		0.100	pH Units	1	8022202	AC	22-Feb-18	9045	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*119 %*	*72-148*		*8022104*	MS	*22-Feb-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	<100		100	mg/kg	10	8022105	MS	22-Feb-18	8015B	
DRO >C10-C28*	**5240**		100	mg/kg	10	8022105	MS	22-Feb-18	8015B	
EXT DRO >C28-C36	**1530**		100	mg/kg	10	8022105	MS	22-Feb-18	8015B	
Surrogate: 1-Chlorooctane			*84.1 %*	*41-142*		*8022105*	MS	*22-Feb-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*160 %*	*37.6-147*		*8022105*	MS	*22-Feb-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

S-1 0-6"

H800521-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	8022201	AC	22-Feb-18	4500-Cl-B	
pH*	**5.45**		0.100	pH Units	1	8022202	AC	22-Feb-18	9045	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8022104	MS	22-Feb-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*72-148*		*8022104*	MS	*22-Feb-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	<200		200	mg/kg	20	8022105	MS	22-Feb-18	8015B	
DRO >C10-C28*	**14200**		200	mg/kg	20	8022105	MS	22-Feb-18	8015B	
EXT DRO >C28-C36	**6730**		200	mg/kg	20	8022105	MS	22-Feb-18	8015B	
Surrogate: 1-Chlorooctane			*76.1 %*	*41-142*		*8022105*	MS	*22-Feb-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*401 %*	*37.6-147*		*8022105*	MS	*22-Feb-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

S-2 2.5-3'

H800521-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	8022201	AC	22-Feb-18	4500-Cl-B	
pH*	**6.00**		0.100	pH Units	1	8022202	AC	22-Feb-18	9045	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	**0.318**		0.100	mg/kg	100	8022104	MS	22-Feb-18	8021B	
Toluene*	**0.796**		0.100	mg/kg	100	8022104	MS	22-Feb-18	8021B	
Ethylbenzene*	**3.83**		0.100	mg/kg	100	8022104	MS	22-Feb-18	8021B	
Total Xylenes*	**9.29**		0.300	mg/kg	100	8022104	MS	22-Feb-18	8021B	
Total BTEX	**14.2**		0.600	mg/kg	100	8022104	MS	22-Feb-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*72-148*		*8022104*	MS	*22-Feb-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**243**		200	mg/kg	20	8022105	MS	22-Feb-18	8015B	
DRO >C10-C28*	**29400**		200	mg/kg	20	8022105	MS	22-Feb-18	8015B	
EXT DRO >C28-C36	**9930**		200	mg/kg	20	8022105	MS	22-Feb-18	8015B	
Surrogate: 1-Chlorooctane			*74.9 %*	*41-142*		*8022105*	MS	*22-Feb-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*469 %*	*37.6-147*		*8022105*	MS	*22-Feb-18*	*8015B*	

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CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8022201 - 1:4 DI Water										
Blank (8022201-BLK1)				Prepared & Analyzed: 22-Feb-18						
Chloride	ND	16.0	mg/kg							
LCS (8022201-BS1)				Prepared & Analyzed: 22-Feb-18						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (8022201-BSD1)				Prepared & Analyzed: 22-Feb-18						
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
Batch 8022202 - 1:1 DI										
LCS (8022202-BS1)				Prepared & Analyzed: 22-Feb-18						
pH	7.22		pH Units	7.00		103	90-110			
Duplicate (8022202-DUP1)		**Source: H800521-01**		Prepared & Analyzed: 22-Feb-18						
pH	7.94	0.100	pH Units		7.83			1.40	20	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8022104 - Volatiles										
Blank (8022104-BLK1)				Prepared & Analyzed: 22-Feb-18						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.113*		mg/kg	*0.100*		*113*	*72-148*			
LCS (8022104-BS1)				Prepared & Analyzed: 22-Feb-18						
Benzene	1.91	0.050	mg/kg	2.00		95.7	79.5-124			
Toluene	1.91	0.050	mg/kg	2.00		95.6	75.5-127			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.4	77.7-125			
Total Xylenes	5.67	0.150	mg/kg	6.00		94.5	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	*0.104*		mg/kg	*0.100*		*104*	*72-148*			
LCS Dup (8022104-BSD1)				Prepared & Analyzed: 22-Feb-18						
Benzene	1.91	0.050	mg/kg	2.00		95.4	79.5-124	0.316	6.5	
Toluene	1.88	0.050	mg/kg	2.00		94.1	75.5-127	1.57	7.02	
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.7	77.7-125	1.43	7.83	
Total Xylenes	5.69	0.150	mg/kg	6.00		94.9	70.9-124	0.440	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	*0.106*		mg/kg	*0.100*		*106*	*72-148*			

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CARDINAL Laboratories

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

Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730	Project: 8.33 ACRE SITE Project Number: 18-091 Project Manager: ALAN KANE Fax To:	Reported: 22-Feb-18 13:55

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8022105 - General Prep - Organics										
Blank (8022105-BLK1)				Prepared & Analyzed: 21-Feb-18						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*49.1*		mg/kg	*50.0*		*98.2*	*41-142*			
Surrogate: 1-Chlorooctadecane	*48.6*		mg/kg	*50.0*		*97.2*	*37.6-147*			
LCS (8022105-BS1)				Prepared & Analyzed: 21-Feb-18						
GRO C6-C10	201	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	72.9-138			
Total TPH C6-C28	398	10.0	mg/kg	400		99.4	78-132			
Surrogate: 1-Chlorooctane	*50.2*		mg/kg	*50.0*		*100*	*41-142*			
Surrogate: 1-Chlorooctadecane	*52.0*		mg/kg	*50.0*		*104*	*37.6-147*			
LCS Dup (8022105-BSD1)				Prepared & Analyzed: 21-Feb-18						
GRO C6-C10	207	10.0	mg/kg	200		103	76.5-133	2.67	20.6	
DRO >C10-C28	202	10.0	mg/kg	200		101	72.9-138	2.99	20.6	
Total TPH C6-C28	409	10.0	mg/kg	400		102	78-132	2.83	18	
Surrogate: 1-Chlorooctane	*51.9*		mg/kg	*50.0*		*104*	*41-142*			
Surrogate: 1-Chlorooctadecane	*53.9*		mg/kg	*50.0*		*108*	*37.6-147*			

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Kane Environmental Engineering
Project Manager: Ralph Harvey
Address: 125 Pecan Valley Dr.
City: Bullard State: TX Zip: 75757
Phone #: 903-235-9359 Fax #:
Project #: 18-091 Project Owner:
Project Name: 8.33 Acre site
Project Location: SW of Kunrce, NM
Sampler Name: Ralph Harvey

BILL TO
P.O. #: 18-091
Company: Kane
Attn: Alan Kane
Address: 8816 Big View
City: Austin
State: TX Zip: 78730
Phone #: 281-370-6580
Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME (see bars)	ANALYSIS REQUEST: TPH GRO, DRO, ORO	BTEX	pH	Chlorides
H800521	~~S-1 0-6"~~																	
1	S-1 3-3½'	G	1			✓					✓		2/21	11:20	✓	✓	✓	✓
2	S-1 0-6"	G	1			✓					✓		2/21	11:10				
3	S-2 2½-3'	G	1			✓					✓		2/21	11:15				

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

Relinquished By: Date: 2/21 Time: 13:03 Received By: Jodi Henson
Relinquished By: Date: Time: Received By:
Delivered By: (Circle One) #75
Sampler - UPS - Bus - Other: 3.6°C / 3.85°C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
PV rvharvey@gmail.com
Inv ⇒ alanjkane@comcast.net

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

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Shane Estep
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Goodnight Midstream Former DCP Pump Station
Project Number: 876-9521
Location: Lea Co., NM

Lab Order Number: 8G03005

NELAP/TCEQ # T104704516-17-8

Report Date: 07/05/18

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Goodnight Midstream Former DCP Pump Statio
Project Number: 876-9521
Project Manager: Shane Estep

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Test Trench 1 (4.5')	8G03005-01	Soil	07/02/18 12:00	07-03-2018 09:45
Test Trench 1 (5.5')	8G03005-02	Soil	07/02/18 12:05	07-03-2018 09:45
Test Trench 1 (6.5')	8G03005-03	Soil	07/02/18 12:15	07-03-2018 09:45
Test Trench 2 (0"-6")	8G03005-04	Soil	07/02/18 12:45	07-03-2018 09:45
Test Trench 2 (4.0')	8G03005-05	Soil	07/02/18 12:50	07-03-2018 09:45
Test Trench 2 (5.5')	8G03005-06	Soil	07/02/18 13:00	07-03-2018 09:45
Test Trench 2 (6.5')	8G03005-07	Soil	07/02/18 13:10	07-03-2018 09:45

Test Trench 1 (4.5')

8G03005-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0211	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Toluene	ND	0.211	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Ethylbenzene	ND	0.105	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (p/m)	ND	0.421	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (o)	ND	0.211	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*82.7 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**5.0**	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	526	mg/kg dry	20	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C12-C28	**16400**	526	mg/kg dry	20	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C28-C35	**3790**	526	mg/kg dry	20	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**20100**	526	mg/kg dry	20	[CALC]	07/03/18	07/03/18	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Goodnight Midstream Former DCP Pump Statio
Project Number: 876-9521
Project Manager: Shane Estep

Fax: (432) 563-2213

Test Trench 1 (5.5')

8G03005-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0213	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Toluene	ND	0.213	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Ethylbenzene	**0.152**	0.106	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (p/m)	ND	0.426	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (o)	ND	0.213	mg/kg dry	20	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*78.8 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11.9**	1.06	mg/kg dry	1	P8G0308	07/03/18	07/03/18	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1140**	532	mg/kg dry	20	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C12-C28	**27400**	532	mg/kg dry	20	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C28-C35	**5870**	532	mg/kg dry	20	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**34400**	532	mg/kg dry	20	[CALC]	07/03/18	07/03/18	calc	

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Test Trench 1 (6.5')

8G03005-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**6.0**	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C12-C28	**85.4**	26.6	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C28-C35	**42.4**	26.6	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*126 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**128**	26.6	mg/kg dry	1	[CALC]	07/03/18	07/03/18	calc	

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Test Trench 2 (0''-6'')

8G03005-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.00	mg/kg dry	1	P8G0308	07/03/18	07/03/18	EPA 300.0	
% Moisture	ND	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	

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Test Trench 2 (4.0')

8G03005-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**9.0**	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C12-C28	**118**	27.5	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*116 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**118**	27.5	mg/kg dry	1	[CALC]	07/03/18	07/03/18	calc	

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Test Trench 2 (5.5')

8G03005-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00112	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**59.1**	1.12	mg/kg dry	1	P8G0308	07/03/18	07/03/18	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	140	mg/kg dry	5	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C12-C28	**1560**	140	mg/kg dry	5	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C28-C35	**390**	140	mg/kg dry	5	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1950**	140	mg/kg dry	5	[CALC]	07/03/18	07/03/18	calc	

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Test Trench 2 (6.5')

8G03005-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*75-125*		*P8G0501*	*07/04/18*	*07/04/18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**12.0**	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: 1-Chlorooctane		*123 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*139 %*	*70-130*		*P8G0306*	*07/03/18*	*07/03/18*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	07/03/18	07/03/18	calc	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8G0501 - General Preparation (GC)										
Blank (P8G0501-BLK1)				Prepared & Analyzed: 07/04/18						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	*0.0575*		*"*	*0.0600*		*95.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0618*		*"*	*0.0600*		*103*	*75-125*			
LCS (P8G0501-BS1)				Prepared & Analyzed: 07/04/18						
Benzene	0.114	0.00100	mg/kg wet	0.100		114	70-130			
Toluene	0.101	0.0100	"	0.100		101	70-130			
Ethylbenzene	0.110	0.00500	"	0.100		110	70-130			
Xylene (p/m)	0.232	0.0200	"				70-130			
Xylene (o)	0.107	0.0100	"				70-130			
Surrogate: 4-Bromofluorobenzene	*0.0632*		*"*	*0.0600*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0627*		*"*	*0.0600*		*104*	*75-125*			
LCS Dup (P8G0501-BSD1)				Prepared & Analyzed: 07/04/18						
Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130	11.8	20	
Toluene	0.0889	0.0100	"	0.100		88.9	70-130	12.7	20	
Ethylbenzene	0.0961	0.00500	"	0.100		96.1	70-130	13.4	20	
Xylene (p/m)	0.214	0.0200	"				70-130		20	
Xylene (o)	0.0953	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	*0.0608*		*"*	*0.0600*		*101*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0581*		*"*	*0.0600*		*96.8*	*75-125*			
Matrix Spike (P8G0501-MS1)	**Source: 8G03005-03**			Prepared & Analyzed: 07/04/18						
Benzene	0.0968	0.00106	mg/kg dry	0.106	ND	91.0	80-120			
Toluene	0.0851	0.0106	"	0.106	ND	80.0	80-120			
Ethylbenzene	0.0887	0.00532	"	0.106	ND	83.4	80-120			
Xylene (p/m)	0.205	0.0213	"		ND		80-120			
Xylene (o)	0.0878	0.0106	"		ND		80-120			
Surrogate: 4-Bromofluorobenzene	*0.0941*		*"*	*0.0638*		*147*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0693*		*"*	*0.0638*		*109*	*75-125*			

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8G0501 - General Preparation (GC)										
Matrix Spike Dup (P8G0501-MSD1)		**Source: 8G03005-03**		Prepared & Analyzed: 07/04/18						
Benzene	0.0939	0.00106	mg/kg dry	0.106	ND	88.2	80-120	3.09	20	
Toluene	0.0828	0.0106	"	0.106	ND	77.8	80-120	2.76	20	QM-07
Ethylbenzene	0.0852	0.00532	"	0.106	ND	80.1	80-120	4.07	20	
Xylene (p/m)	0.187	0.0213	"		ND		80-120		20	
Xylene (o)	0.0839	0.0106	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	*0.0714*		*"*	*0.0638*		*112*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0724*		*"*	*0.0638*		*113*	*75-125*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P8G0308 - * DEFAULT PREP *** **										
Blank (P8G0308-BLK1)				Prepared & Analyzed: 07/03/18						
Chloride	ND	1.00	mg/kg wet							
LCS (P8G0308-BS1)				Prepared & Analyzed: 07/03/18						
Chloride	391	1.00	mg/kg wet	400		97.7	80-120			
LCS Dup (P8G0308-BSD1)				Prepared & Analyzed: 07/03/18						
Chloride	393	1.00	mg/kg wet	400		98.2	80-120	0.569	20	
Duplicate (P8G0308-DUP1)		**Source: 8F28001-01**		Prepared & Analyzed: 07/03/18						
Chloride	1900	5.21	mg/kg dry		1900			0.00552	20	
Duplicate (P8G0308-DUP2)		**Source: 8G02016-32**		Prepared & Analyzed: 07/03/18						
Chloride	31.1	1.04	mg/kg dry		31.5			1.30	20	
Matrix Spike (P8G0308-MS1)		**Source: 8F28001-01**		Prepared & Analyzed: 07/03/18						
Chloride	2930	5.21	mg/kg dry	1040	1900	98.2	80-120			
Batch P8G0506 - * DEFAULT PREP *** **										
Blank (P8G0506-BLK1)				Prepared & Analyzed: 07/05/18						
% Moisture	ND	0.1	%							

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Goodnight Midstream Former DCP Pump Statio
Project Number: 876-9521
Project Manager: Shane Estep

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 7/5/2018

Brent Barron, Laboratory Director/Technical Director

BELAB Permian Basin Environmental Lab, LP

1400 Rankin Hwy Midland Texas 79701 Phone: 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Shane Estep

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: P.O. Box 8469

City/State/Zip: Midland, Texas 79708

Sampler Signature: Geoff Lowing

email: shane @etechenv.com
geoff " "

Project Name: Goodnight Midstream Former DCP Pump Station

Project #: 876-9521 Project Loc: Lea Co., NM

Area: PO#:

Report Format: STANDARD: ☒ TRRP: ☐ NPDES: ☐

(lab use only)
ORDER #: 8G03005

Preservation & # of Containers; Matrix (OW=Drinking Water, SL=Sludge, GW = Groundwater, S=Soil/Solid, NP=Non-Potable Specify Other); Analyze For: TCLP / TOTAL

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix	TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	(BTEX 8021B)/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) (24), 48, 72 hrs	STANDARD TAT
01	Test Trench 1		4.5'	7.2.18	1200	1	X								S	X							X			X	X	
02	↓		5.5'	↓	1205	↓	↓								↓	X							X			X	↓	
03			6.5'		1215											X							X					
04	Test Trench 2	0"	6"		1245																					X		
05	↓		4.0'		1250											X							X					
06			5.5'		1300											X							X			X		
07			6.5'		1310											X							X					

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Geoff Lowing	7.3.18		M Estup	7/3/18	840
Relinquished by:	Date	Time	Received by:	Date	Time
M Estup	7-3-18	840	Alyssa Haddock	7/3/18	9:45

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
Sar by Sampler/Client Rep. ? Y N
Sar by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 2.3 +0.4 2.7 °C (L1)

CARDINAL Laboratories

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

August 15, 2018

SHANE ESTEP

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: FORMER DCP PUMP STATION HISTORICAL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/14/18 16:25.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW 1	H802260-01	Soil	14-Aug-18 15:20	14-Aug-18 16:25
BH 2	H802260-02	Soil	14-Aug-18 15:30	14-Aug-18 16:25
NSW 2	H802260-03	Soil	14-Aug-18 15:35	14-Aug-18 16:25
NSW 1	H802260-04	Soil	14-Aug-18 15:40	14-Aug-18 16:25
E SW	H802260-05	Soil	14-Aug-18 15:55	14-Aug-18 16:25

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

WSW 1

H802260-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*69.8-142*		*8081502*	MS	*15-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
DRO >C10-C28*	**727**		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
EXT DRO >C28-C36	**526**		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*41-142*		*8081501*	MS	*15-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*118 %*	*37.6-147*		*8081501*	MS	*15-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

BH 2

H802260-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*69.8-142*		*8081502*	MS	*15-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
DRO >C10-C28*	**32.3**		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*113 %*	*41-142*		*8081501*	MS	*15-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*109 %*	*37.6-147*		*8081501*	MS	*15-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

NSW 2

H802260-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*69.8-142*		*8081502*	MS	*15-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*113 %*	*41-142*		*8081501*	MS	*15-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*37.6-147*		*8081501*	MS	*15-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

NSW 1

H802260-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*69.8-142*		*8081502*	MS	*15-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
DRO >C10-C28*	**168**		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
EXT DRO >C28-C36	**41.7**		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*109 %*	*41-142*		*8081501*	MS	*15-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*37.6-147*		*8081501*	MS	*15-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

E SW

H802260-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081502	MS	15-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*69.8-142*		*8081502*	MS	*15-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081501	MS	15-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*41-142*		*8081501*	MS	*15-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*100 %*	*37.6-147*		*8081501*	MS	*15-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8081502 - Volatiles										
Blank (8081502-BLK1)				Prepared & Analyzed: 15-Aug-18						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.110*		mg/kg	*0.100*		*110*	*69.8-142*			
LCS (8081502-BS1)				Prepared & Analyzed: 15-Aug-18						
Benzene	1.84	0.050	mg/kg	2.00		92.1	74.5-124			
Toluene	1.92	0.050	mg/kg	2.00		95.8	78.8-122			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.4	78.6-122			
Total Xylenes	5.68	0.150	mg/kg	6.00		94.6	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	*0.110*		mg/kg	*0.100*		*110*	*69.8-142*			
LCS Dup (8081502-BSD1)				Prepared & Analyzed: 15-Aug-18						
Benzene	1.88	0.050	mg/kg	2.00		93.8	74.5-124	1.85	15.2	
Toluene	1.94	0.050	mg/kg	2.00		97.2	78.8-122	1.44	15.1	
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	78.6-122	1.70	15.4	
Total Xylenes	5.74	0.150	mg/kg	6.00		95.7	79.7-123	1.18	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	*0.110*		mg/kg	*0.100*		*110*	*69.8-142*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 15-Aug-18 16:17

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8081501 - General Prep - Organics										
Blank (8081501-BLK1)				Prepared & Analyzed: 15-Aug-18						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*57.2*		mg/kg	*50.0*		*114*	*41-142*			
Surrogate: 1-Chlorooctadecane	*51.2*		mg/kg	*50.0*		*102*	*37.6-147*			
LCS (8081501-BS1)				Prepared & Analyzed: 15-Aug-18						
GRO C6-C10	217	10.0	mg/kg	200		108	76.5-133			
DRO >C10-C28	204	10.0	mg/kg	200		102	72.9-138			
Total TPH C6-C28	421	10.0	mg/kg	400		105	78-132			
Surrogate: 1-Chlorooctane	*57.8*		mg/kg	*50.0*		*116*	*41-142*			
Surrogate: 1-Chlorooctadecane	*51.5*		mg/kg	*50.0*		*103*	*37.6-147*			
LCS Dup (8081501-BSD1)				Prepared & Analyzed: 15-Aug-18						
GRO C6-C10	221	10.0	mg/kg	200		110	76.5-133	1.88	20.6	
DRO >C10-C28	226	10.0	mg/kg	200		113	72.9-138	10.2	20.6	
Total TPH C6-C28	447	10.0	mg/kg	400		112	78-132	6.01	18	
Surrogate: 1-Chlorooctane	*57.2*		mg/kg	*50.0*		*114*	*41-142*			
Surrogate: 1-Chlorooctadecane	*52.4*		mg/kg	*50.0*		*105*	*37.6-147*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GOODNIGHT MIDSTREAM / ETECH	**BILL TO**
Project Manager: SHANE ESTEP	P.O. #:
Address: 13000 W CR 100	Company: ETECH
City: ODESSA State: TX Zip: 79726	Attn: KATI GOODMAN
Phone #: 432-425-7160 Fax #:	Address: 13000 W CR 100
Project #: 876-9521-000 Project Owner: GOODNIGHT	City: ODESSA
Project Name: FORMER DCP PUMP STATION HISTORICAL RELEASE	State: TX Zip: 79726
Project Location: LEA CO., NM	Phone #: 432-425-7160
Sampler Name: GEOFF LEKING	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX									
H802260																									
1	NSW 3	G	1			X					X		8.14.18	1520	X	X									
2	BH 2													1530											
3	NSW 2													1535											
4	NSW 1													1540											
5	E SW													1555											

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

Relinquished By: Geoff Leking	Date: 8.14.18 Time: 1625	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.2°C / 2.15°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) TO. #75

REMARKS: EMAIL RESULTS TO:
shane@etechenv.com
geoff@etechenv.com
RUSH 24HR.

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

CARDINAL Laboratories

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

August 16, 2018

SHANE ESTEP

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: FORMER DCP PUMP STATION HISTORICAL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/15/18 15:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/15/2018	Sampling Date:	08/15/2018
Reported:	08/16/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH 3 12' (H802281-01)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2018	ND	1.98	99.1	2.00	1.06	
Toluene*	<0.050	0.050	08/16/2018	ND	2.04	102	2.00	0.603	
Ethylbenzene*	<0.050	0.050	08/16/2018	ND	2.08	104	2.00	0.561	
Total Xylenes*	<0.150	0.150	08/16/2018	ND	6.03	100	6.00	0.595	
Total BTEX	<0.300	0.300	08/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *69.8-142*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2018	ND	226	113	200	1.35	
DRO >C10-C28*	**1180**	50.0	08/16/2018	ND	224	112	200	2.02	
EXT DRO >C28-C36	**356**	50.0	08/16/2018	ND					

Surrogate: 1-Chlorooctane *75.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *122 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/15/2018	Sampling Date:	08/15/2018
Reported:	08/16/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: NE SW 1 9' (H802281-02)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2018	ND	1.98	99.1	2.00	1.06	
Toluene*	<0.050	0.050	08/16/2018	ND	2.04	102	2.00	0.603	
Ethylbenzene*	<0.050	0.050	08/16/2018	ND	2.08	104	2.00	0.561	
Total Xylenes*	<0.150	0.150	08/16/2018	ND	6.03	100	6.00	0.595	
Total BTEX	<0.300	0.300	08/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID	*107 %*	*69.8-142*

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	08/16/2018	ND	226	113	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/16/2018	ND	224	112	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	08/16/2018	ND					

Surrogate: 1-Chlorooctane	*86.3 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*79.7 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/15/2018	Sampling Date:	08/15/2018
Reported:	08/16/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SE SW 1 9' (H802281-03)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2018	ND	1.98	99.1	2.00	1.06	
Toluene*	<0.050	0.050	08/16/2018	ND	2.04	102	2.00	0.603	
Ethylbenzene*	<0.050	0.050	08/16/2018	ND	2.08	104	2.00	0.561	
Total Xylenes*	<0.150	0.150	08/16/2018	ND	6.03	100	6.00	0.595	
Total BTEX	<0.300	0.300	08/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.8-142*

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/16/2018	ND	226	113	200	1.35	
DRO >C10-C28*	**7150**	100	08/16/2018	ND	224	112	200	2.02	
EXT DRO >C28-C36	**4100**	100	08/16/2018	ND					

Surrogate: 1-Chlorooctane *114 %* *41-142*

Surrogate: 1-Chlorooctadecane *432 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/15/2018	Sampling Date:	08/15/2018
Reported:	08/16/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW SW 1 9' (H802281-04)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2018	ND	1.98	99.1	2.00	1.06	
Toluene*	<0.050	0.050	08/16/2018	ND	2.04	102	2.00	0.603	
Ethylbenzene*	**0.517**	0.050	08/16/2018	ND	2.08	104	2.00	0.561	
Total Xylenes*	<0.150	0.150	08/16/2018	ND	6.03	100	6.00	0.595	
Total BTEX	**0.517**	0.300	08/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *144 %* *69.8-142*

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2018	ND	226	113	200	1.35	
DRO >C10-C28*	**3550**	50.0	08/16/2018	ND	224	112	200	2.02	
EXT DRO >C28-C36	**976**	50.0	08/16/2018	ND					

Surrogate: 1-Chlorooctane *96.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *163 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/15/2018	Sampling Date:	08/15/2018
Reported:	08/16/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: NW SW 1 9' (H802281-05)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2018	ND	1.98	99.1	2.00	1.06	
Toluene*	<0.050	0.050	08/16/2018	ND	2.04	102	2.00	0.603	
Ethylbenzene*	<0.050	0.050	08/16/2018	ND	2.08	104	2.00	0.561	
Total Xylenes*	<0.150	0.150	08/16/2018	ND	6.03	100	6.00	0.595	
Total BTEX	<0.300	0.300	08/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *69.8-142*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2018	ND	226	113	200	1.35	
DRO >C10-C28*	**3990**	50.0	08/16/2018	ND	224	112	200	2.02	
EXT DRO >C28-C36	**810**	50.0	08/16/2018	ND					

Surrogate: 1-Chlorooctane *92.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *143 %* *37.6-147*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GOODNIGHT MIDSTREAM/ETECH	**BILL TO**
Project Manager: KIM MERRILL/SHANE ESTEP	P.O. #:
Address: 13000 W CR 100	Company: ETECH
City: ODESSA State: TX Zip: 79726	Attn: KATI GOODMAN
Phone #: 432-425-7160 Fax #:	Address: 13000 W CR 100
Project #: 96-9521-000 Project Owner: GOODNIGHT	City: ODESSA
Project Name: FORMER DCP PUMP STATION HISTORICAL RELEASE	State: TX Zip: 79726
Project Location: LEA CO., TX	Phone #: 432-425-7160
Sampler Name: GEOFF LEKING	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX
H802281																
1	BH 3 12'	G	1			X					X		8.15.18	1440	X	X
2	NESW 1 9'													1445		
3	SESW 1 9'													1450		
4	SWSW 1 9'													1455		
5	NWSW 1 9'													1500		

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

Relinquished By: Geoff Leking	Date: 8.15.18 Time: 1555	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.0c / 1.95c	Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials) TO-#975	REMARKS: kim@etechenv.com shane@etechenv.com geoff@etechenv.com RUSH 24HR

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

CARDINAL Laboratories

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

August 17, 2018

SHANE ESTEP

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: FORMER DCP PUMP STATION HISTORICAL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/16/18 16:30.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSW 1 3'	H802300-01	Soil	16-Aug-18 12:05	16-Aug-18 16:30
SSW 2 2'	H802300-02	Soil	16-Aug-18 12:10	16-Aug-18 16:30
BH 5 5'	H802300-03	Soil	16-Aug-18 12:00	16-Aug-18 16:30
BH 1 6.5'	H802300-04	Soil	16-Aug-18 08:40	16-Aug-18 16:30
TT 1 7.5'	H802300-05	Soil	16-Aug-18 08:45	16-Aug-18 16:30
BH 4 12.0'	H802300-06	Soil	16-Aug-18 09:00	16-Aug-18 16:30
NE SW 2 9.0'	H802300-07	Soil	16-Aug-18 09:05	16-Aug-18 16:30
SE SW 2 9.0'	H802300-08	Soil	16-Aug-18 09:10	16-Aug-18 16:30
NW SW 2 9.0'	H802300-09	Soil	16-Aug-18 09:20	16-Aug-18 16:30
SW SW 2 9.0'	H802300-10	Soil	16-Aug-18 09:15	16-Aug-18 16:30

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*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

SSW 1 3'

H802300-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*94.2 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.7 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

SSW 2 2'

H802300-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*90.0 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.8 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

BH 5 5'

H802300-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	**21.0**		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*83.2 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*77.2 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

BH 1 6.5'

H802300-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*89.1 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.2 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

TT 1 7.5'

H802300-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*112 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*88.4 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.6 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

BH 4 12.0'

H802300-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.500		0.500	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Toluene*	**1.34**		0.500	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	**10.2**		0.500	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	**20.8**		1.50	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Total BTEX	**32.3**		3.00	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*121 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**596**		100	mg/kg	10	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	**11800**		100	mg/kg	10	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	**2670**		100	mg/kg	10	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*128 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*635 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

NE SW 2 9.0'

H802300-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.500		0.500	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Toluene*	<0.500		0.500	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Ethylbenzene*	**3.20**		0.500	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Total Xylenes*	**14.2**		1.50	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Total BTEX	**17.4**		3.00	mg/kg	500	8081602	MS	16-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*121 %*	*69.8-142*		*8081602*	MS	*16-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**579**		50.0	mg/kg	5	8081610	MS	17-Aug-18	8015B	
DRO >C10-C28*	**8000**		50.0	mg/kg	5	8081610	MS	17-Aug-18	8015B	
EXT DRO >C28-C36	**1450**		50.0	mg/kg	5	8081610	MS	17-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*152 %*	*41-142*		*8081610*	MS	*17-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*216 %*	*37.6-147*		*8081610*	MS	*17-Aug-18*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

SE SW 2 9.0'

H802300-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Toluene*	**0.226**		0.050	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Ethylbenzene*	**3.33**		0.050	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Total Xylenes*	**0.524**		0.150	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Total BTEX	**4.08**		0.300	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*89.6 %*	*69.8-142*		*8081602*	MS	*17-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**175**		100	mg/kg	10	8081701	MS	17-Aug-18	8015B	S-06
DRO >C10-C28*	**7010**		100	mg/kg	10	8081701	MS	17-Aug-18	8015B	S-06
EXT DRO >C28-C36	**2450**		100	mg/kg	10	8081701	MS	17-Aug-18	8015B	S-06
Surrogate: 1-Chlorooctane			*90.1 %*	*41-142*		*8081701*	MS	*17-Aug-18*	*8015B*	*S-06*
Surrogate: 1-Chlorooctadecane			*366 %*	*37.6-147*		*8081701*	MS	*17-Aug-18*	*8015B*	*S-06*

Cardinal Laboratories

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CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

NW SW 2 9.0'

H802300-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081602	MS	17-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.6 %*	*69.8-142*		*8081602*	MS	*17-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**229**		50.0	mg/kg	5	8081701	MS	17-Aug-18	8015B	S-06
DRO >C10-C28*	**7640**		50.0	mg/kg	5	8081701	MS	17-Aug-18	8015B	S-06
EXT DRO >C28-C36	**1800**		50.0	mg/kg	5	8081701	MS	17-Aug-18	8015B	S-06
Surrogate: 1-Chlorooctane			*90.0 %*	*41-142*		*8081701*	MS	*17-Aug-18*	*8015B*	*S-06*
Surrogate: 1-Chlorooctadecane			*260 %*	*37.6-147*		*8081701*	MS	*17-Aug-18*	*8015B*	*S-06*

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CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

SW SW 2 9.0'

H802300-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8081702	ms	17-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8081702	ms	17-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8081702	ms	17-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8081702	ms	17-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8081702	ms	17-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*89.8 %*	*69.8-142*		*8081702*	ms	*17-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**280**		50.0	mg/kg	5	8081701	MS	17-Aug-18	8015B	S-06
DRO >C10-C28*	**9690**		50.0	mg/kg	5	8081701	MS	17-Aug-18	8015B	S-06
EXT DRO >C28-C36	**2670**		50.0	mg/kg	5	8081701	MS	17-Aug-18	8015B	S-06
Surrogate: 1-Chlorooctane			*106 %*	*41-142*		*8081701*	MS	*17-Aug-18*	*8015B*	*S-06*
Surrogate: 1-Chlorooctadecane			*387 %*	*37.6-147*		*8081701*	MS	*17-Aug-18*	*8015B*	*S-06*

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CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8081602 - Volatiles										
Blank (8081602-BLK1)				Prepared & Analyzed: 16-Aug-18						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.111*		mg/kg	*0.100*		*111*	*69.8-142*			
LCS (8081602-BS1)				Prepared & Analyzed: 16-Aug-18						
Benzene	1.98	0.050	mg/kg	2.00		99.1	74.5-124			
Toluene	2.04	0.050	mg/kg	2.00		102	78.8-122			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	78.6-122			
Total Xylenes	6.03	0.150	mg/kg	6.00		100	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	*0.107*		mg/kg	*0.100*		*107*	*69.8-142*			
LCS Dup (8081602-BSD1)				Prepared & Analyzed: 16-Aug-18						
Benzene	1.96	0.050	mg/kg	2.00		98.1	74.5-124	1.06	15.2	
Toluene	2.06	0.050	mg/kg	2.00		103	78.8-122	0.603	15.1	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	78.6-122	0.561	15.4	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	79.7-123	0.595	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	*0.109*		mg/kg	*0.100*		*109*	*69.8-142*			
Batch 8081702 - Volatiles										
Blank (8081702-BLK1)				Prepared & Analyzed: 17-Aug-18						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0960*		mg/kg	*0.100*		*96.0*	*69.8-142*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8081702 - Volatiles										
LCS (8081702-BS1)				Prepared & Analyzed: 17-Aug-18						
Benzene	2.03	0.050	mg/kg	2.00		101	74.5-124			
Toluene	1.94	0.050	mg/kg	2.00		96.8	78.8-122			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	78.6-122			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0942*		mg/kg	*0.100*		*94.2*	*69.8-142*			
LCS Dup (8081702-BSD1)				Prepared & Analyzed: 17-Aug-18						
Benzene	2.03	0.050	mg/kg	2.00		102	74.5-124	0.194	15.2	
Toluene	1.94	0.050	mg/kg	2.00		96.8	78.8-122	0.00140	15.1	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	78.6-122	1.36	15.4	
Total Xylenes	5.81	0.150	mg/kg	6.00		96.9	79.7-123	0.971	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0953*		mg/kg	*0.100*		*95.3*	*69.8-142*			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8081610 - General Prep - Organics										
Blank (8081610-BLK1)				Prepared & Analyzed: 16-Aug-18						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*52.5*		mg/kg	*50.0*		*105*	*41-142*			
Surrogate: 1-Chlorooctadecane	*47.2*		mg/kg	*50.0*		*94.5*	*37.6-147*			
LCS (8081610-BS1)				Prepared & Analyzed: 16-Aug-18						
GRO C6-C10	232	10.0	mg/kg	200		116	76.5-133			
DRO >C10-C28	231	10.0	mg/kg	200		116	72.9-138			
Total TPH C6-C28	463	10.0	mg/kg	400		116	78-132			
Surrogate: 1-Chlorooctane	*52.8*		mg/kg	*50.0*		*106*	*41-142*			
Surrogate: 1-Chlorooctadecane	*49.7*		mg/kg	*50.0*		*99.4*	*37.6-147*			
LCS Dup (8081610-BSD1)				Prepared & Analyzed: 16-Aug-18						
GRO C6-C10	211	10.0	mg/kg	200		106	76.5-133	9.25	20.6	
DRO >C10-C28	214	10.0	mg/kg	200		107	72.9-138	7.92	20.6	
Total TPH C6-C28	425	10.0	mg/kg	400		106	78-132	8.58	18	
Surrogate: 1-Chlorooctane	*51.7*		mg/kg	*50.0*		*103*	*41-142*			
Surrogate: 1-Chlorooctadecane	*47.5*		mg/kg	*50.0*		*95.0*	*37.6-147*			
Batch 8081701 - General Prep - Organics										
Blank (8081701-BLK1)				Prepared & Analyzed: 17-Aug-18						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*49.0*		mg/kg	*50.0*		*98.1*	*41-142*			
Surrogate: 1-Chlorooctadecane	*45.7*		mg/kg	*50.0*		*91.4*	*37.6-147*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 17-Aug-18 14:50

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8081701 - General Prep - Organics										
LCS (8081701-BS1)				Prepared & Analyzed: 17-Aug-18						
GRO C6-C10	228	10.0	mg/kg	200		114	76.5-133			
DRO >C10-C28	232	10.0	mg/kg	200		116	72.9-138			
Total TPH C6-C28	460	10.0	mg/kg	400		115	78-132			
Surrogate: 1-Chlorooctane	*53.5*		mg/kg	*50.0*		*107*	*41-142*			
Surrogate: 1-Chlorooctadecane	*51.5*		mg/kg	*50.0*		*103*	*37.6-147*			
LCS Dup (8081701-BSD1)				Prepared & Analyzed: 17-Aug-18						
GRO C6-C10	226	10.0	mg/kg	200		113	76.5-133	0.956	20.6	
DRO >C10-C28	230	10.0	mg/kg	200		115	72.9-138	0.793	20.6	
Total TPH C6-C28	456	10.0	mg/kg	400		114	78-132	0.874	18	
Surrogate: 1-Chlorooctane	*52.8*		mg/kg	*50.0*		*106*	*41-142*			
Surrogate: 1-Chlorooctadecane	*50.9*		mg/kg	*50.0*		*102*	*37.6-147*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GOODNIGHT MIDSTREAM / ETECH	**BILL TO**
Project Manager: KIM MERRILL / SHANE ESTES	P.O. #:
Address: 3000 W CR 100	Company: ETECH
City: ODESSA State: TX Zip: 79726	Attn: KATI GOODMAN
Phone #: 432-563-2200 Fax #:	Address: 3000 W CR 200
Project #: 876-9521-000 Project Owner: GOODNIGHT	City: ODESSA
Project Name: FORMER DCP PUMP STATION H2S RELEASE	State: TX Zip: 79726
Project Location: LEA CO., NM	Phone #: 432-425-2200
Sampler Name: GEOFF LEKING	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX
H802300																
1	SSW 1 3'	G	1			X					X		8.16.18	1205	X	X
2	SSW 2 2'													1210		
3	BH 5 5'													1200		
4	BH 1 6.5'													0840		
5	TT 1 7.5'													0845		
6	BH 4 12.0'													0900		
7	NESW 2 9.0'													0905		
8	SESW 2 9.0'													0910		
9	NW SW 2 9.0'													0920		
10	SW SW 2 9.0'													0915		

Relinquished By: Geoff Leking	Date: 8.16.18 Time: 1630	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -2.1°C / -2.15°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) T.O. #75	REMARKS: Rush! kim@etechenv.com shane@etechenv.com geoff@etechenv.com

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

CARDINAL Laboratories

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

August 20, 2018

SHANE ESTEP

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: FORMER DCP PUMP STATION HISTORICAL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/17/18 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/17/2018	Sampling Date:	08/17/2018
Reported:	08/20/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SE SW 1A 9' (H802314-01)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2018	ND	1.93	96.4	2.00	2.58	
Toluene*	<0.050	0.050	08/19/2018	ND	1.85	92.7	2.00	2.51	
Ethylbenzene*	<0.050	0.050	08/19/2018	ND	1.88	94.2	2.00	2.39	
Total Xylenes*	<0.150	0.150	08/19/2018	ND	5.72	95.4	6.00	2.22	
Total BTEX	<0.300	0.300	08/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.8-142*

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	08/20/2018	ND	195	97.3	200	1.13	
DRO >C10-C28*	**202**	10.0	08/20/2018	ND	204	102	200	1.75	
EXT DRO >C28-C36	**45.9**	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane *92.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.1 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/17/2018	Sampling Date:	08/17/2018
Reported:	08/20/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH 6 14' (H802314-02)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2018	ND	1.93	96.4	2.00	2.58	
Toluene*	<0.050	0.050	08/20/2018	ND	1.85	92.7	2.00	2.51	
Ethylbenzene*	<0.050	0.050	08/20/2018	ND	1.88	94.2	2.00	2.39	
Total Xylenes*	<0.150	0.150	08/20/2018	ND	5.72	95.4	6.00	2.22	
Total BTEX	<0.300	0.300	08/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.8-142*

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	08/20/2018	ND	195	97.3	200	1.13	
DRO >C10-C28*	**189**	10.0	08/20/2018	ND	204	102	200	1.75	
EXT DRO >C28-C36	**27.0**	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane *95.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *97.1 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/17/2018	Sampling Date:	08/17/2018
Reported:	08/20/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NE SW 3 11' (H802314-03)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2018	ND	1.93	96.4	2.00	2.58	
Toluene*	<0.050	0.050	08/20/2018	ND	1.85	92.7	2.00	2.51	
Ethylbenzene*	<0.050	0.050	08/20/2018	ND	1.88	94.2	2.00	2.39	
Total Xylenes*	<0.150	0.150	08/20/2018	ND	5.72	95.4	6.00	2.22	
Total BTEX	<0.300	0.300	08/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *72.0 %* *69.8-142*

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**130**	100	08/20/2018	ND	195	97.3	200	1.13	
DRO >C10-C28*	**26000**	100	08/20/2018	ND	204	102	200	1.75	
EXT DRO >C28-C36	**4990**	100	08/20/2018	ND					

Surrogate: 1-Chlorooctane *125 %* *41-142*

Surrogate: 1-Chlorooctadecane *1270 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/17/2018	Sampling Date:	08/17/2018
Reported:	08/20/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SE SW 3 11' (H802314-04)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2018	ND	1.93	96.4	2.00	2.58	
Toluene*	<0.050	0.050	08/20/2018	ND	1.85	92.7	2.00	2.51	
Ethylbenzene*	<0.050	0.050	08/20/2018	ND	1.88	94.2	2.00	2.39	
Total Xylenes*	<0.150	0.150	08/20/2018	ND	5.72	95.4	6.00	2.22	
Total BTEX	<0.300	0.300	08/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.8 %* *69.8-142*

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/20/2018	ND	195	97.3	200	1.13	
DRO >C10-C28*	**7170**	100	08/20/2018	ND	204	102	200	1.75	
EXT DRO >C28-C36	**876**	100	08/20/2018	ND					

Surrogate: 1-Chlorooctane *110 %* *41-142*

Surrogate: 1-Chlorooctadecane *397 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/17/2018	Sampling Date:	08/17/2018
Reported:	08/20/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SW SW 3 11' (H802314-05)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2018	ND	1.93	96.4	2.00	2.58	
Toluene*	<0.050	0.050	08/20/2018	ND	1.85	92.7	2.00	2.51	
Ethylbenzene*	<0.050	0.050	08/20/2018	ND	1.88	94.2	2.00	2.39	
Total Xylenes*	<0.150	0.150	08/20/2018	ND	5.72	95.4	6.00	2.22	
Total BTEX	<0.300	0.300	08/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.0 %* *69.8-142*

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	08/20/2018	ND	195	97.3	200	1.13	
DRO >C10-C28*	**193**	10.0	08/20/2018	ND	204	102	200	1.75	
EXT DRO >C28-C36	**28.6**	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane *91.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.2 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/17/2018	Sampling Date:	08/17/2018
Reported:	08/20/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NW SW 3 11' (H802314-06)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2018	ND	1.93	96.4	2.00	2.58	
Toluene*	<0.050	0.050	08/20/2018	ND	1.85	92.7	2.00	2.51	
Ethylbenzene*	<0.050	0.050	08/20/2018	ND	1.88	94.2	2.00	2.39	
Total Xylenes*	<0.150	0.150	08/20/2018	ND	5.72	95.4	6.00	2.22	
Total BTEX	<0.300	0.300	08/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.8-142*

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	08/20/2018	ND	195	97.3	200	1.13	
DRO >C10-C28*	**1250**	10.0	08/20/2018	ND	204	102	200	1.75	
EXT DRO >C28-C36	**187**	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane *95.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *140 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GOODNIGHT MIDSTREAM / ETECH	**BILL TO**
Project Manager: KIM MERRILL / SHANE ESTEP	P.O. #:
Address: P.O. BOX 8469	Company: ETECH
City: MIDLAND State: TX Zip: 79708	Attn: SHANE ESTEP
Phone #: 432-563-2213 Fax #:	Address: P.O. BOX 8469
Project #: 876-9521-000 Project Owner: GOODNIGHT	City: MIDLAND
Project Name: FORMER DCP PUMP STATION HISTORICAL RELEASE	State: TX Zip: 79708
Project Location: LEA CO., NM	Phone #: 432-563-2213
Sampler Name: GEUFF LEKING	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX									
H802314																									
1	SESW 1A 9'	G	1			X					X		8.17.18	1000	X	X									
2	BH 6 14'													1630											
3	NESW 3 11'													1635											
4	SESW 3 11'													1640											
5	SWSW 3 11'													1645											
6	NWSW 3 11'													1650											

Relinquished By: Geoff Leking	Date: 8.17.18 Time: 1640	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 3.6°C #54	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: RUSH 24 HRS kim@etechenv.com shane@etechenv.com geoff@etechenv.com

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

CARDINAL Laboratories

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

August 23, 2018

SHANE ESTEP

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: FORMER DCP PUMP STATION HISTORICAL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/22/18 16:45.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 8 29'	H802349-01	Soil	22-Aug-18 14:45	22-Aug-18 16:45
NWSW 4 26'	H802349-02	Soil	22-Aug-18 14:50	22-Aug-18 16:45
NESW 4 26'	H802349-03	Soil	22-Aug-18 15:00	22-Aug-18 16:45
SESW 4 26'	H802349-04	Soil	22-Aug-18 15:05	22-Aug-18 16:45
SWSW 4 26'	H802349-05	Soil	22-Aug-18 15:10	22-Aug-18 16:45
SESW 3A 14'	H802349-06	Soil	22-Aug-18 15:40	22-Aug-18 16:45
NSW 3 14'	H802349-07	Soil	22-Aug-18 15:45	22-Aug-18 16:45
SSW 3 14'	H802349-08	Soil	22-Aug-18 15:50	22-Aug-18 16:45
BH 7 17'	H802349-09	Soil	22-Aug-18 15:55	22-Aug-18 16:45
BH 4A 20'	H802349-10	Soil	22-Aug-18 16:00	22-Aug-18 16:45
NESW 2A 17'	H802349-11	Soil	22-Aug-18 16:05	22-Aug-18 16:45

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

BH 8 29'

H802349-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.0 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**16.2**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*96.7 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.9 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

NWSW 4 26'

H802349-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	**0.160**		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	**0.669**		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	**0.829**		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*122 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**95.4**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**3600**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**375**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*117 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*239 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

NESW 4 26'

H802349-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	**0.306**		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	**0.638**		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	**0.944**		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*153 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**103**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**2920**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**331**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*106 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*198 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

SESW 4 26'

H802349-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.0 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**18.4**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*106 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*99.9 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

SWSW 4 26'

H802349-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.3 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**228**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**17.6**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*87.9 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.6 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

SESW 3A 14'

H802349-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.8 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**32.9**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*101 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.1 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

NSW 3 14'

H802349-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	**0.156**		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	**0.216**		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	**0.371**		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*134 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**113**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**9750**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**1370**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*136 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*504 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

SSW 3 14'

H802349-08 (Soil)

Cardinal Laboratories

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.9 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**11.4**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*99.3 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.2 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

BH 7 17'

H802349-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.9 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**389**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**50.0**		10.0	mg/kg	1	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*95.5 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

BH 4A 20'

H802349-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	**0.625**		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	**0.625**		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*170 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**113**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**3720**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**563**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*112 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*247 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

Cardinal Laboratories

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CARDINAL Laboratories

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

NESW 2A 17'

H802349-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Toluene*	**0.082**		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Ethylbenzene*	**0.901**		0.050	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total Xylenes*	**2.70**		0.150	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Total BTEX	**3.69**		0.300	mg/kg	50	8082304	ms	23-Aug-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*186 %*	*69.8-142*		*8082304*	ms	*23-Aug-18*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**349**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
DRO >C10-C28*	**4110**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
EXT DRO >C28-C36	**419**		50.0	mg/kg	5	8082216	MS	23-Aug-18	8015B	
Surrogate: 1-Chlorooctane			*150 %*	*41-142*		*8082216*	MS	*23-Aug-18*	*8015B*	
Surrogate: 1-Chlorooctadecane			*255 %*	*37.6-147*		*8082216*	MS	*23-Aug-18*	*8015B*	

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8082304 - Volatiles										
Blank (8082304-BLK1)				Prepared & Analyzed: 23-Aug-18						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0973*		mg/kg	*0.100*		*97.3*	*69.8-142*			
LCS (8082304-BS1)				Prepared & Analyzed: 23-Aug-18						
Benzene	1.96	0.050	mg/kg	2.00		98.0	74.5-124			
Toluene	1.89	0.050	mg/kg	2.00		94.7	78.8-122			
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.1	78.6-122			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.1	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0951*		mg/kg	*0.100*		*95.1*	*69.8-142*			
LCS Dup (8082304-BSD1)				Prepared & Analyzed: 23-Aug-18						
Benzene	1.96	0.050	mg/kg	2.00		98.0	74.5-124	0.00964	15.2	
Toluene	1.90	0.050	mg/kg	2.00		94.9	78.8-122	0.233	15.1	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	78.6-122	0.417	15.4	
Total Xylenes	5.81	0.150	mg/kg	6.00		96.8	79.7-123	0.396	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0951*		mg/kg	*0.100*		*95.1*	*69.8-142*			

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CARDINAL Laboratories

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: FORMER DCP PUMP STATION HIST Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213	Reported: 23-Aug-18 14:23

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8082216 - General Prep - Organics										
Blank (8082216-BLK1)				Prepared: 22-Aug-18 Analyzed: 23-Aug-18						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*54.4*		mg/kg	*50.0*		*109*	*41-142*			
Surrogate: 1-Chlorooctadecane	*52.2*		mg/kg	*50.0*		*104*	*37.6-147*			
LCS (8082216-BS1)				Prepared: 22-Aug-18 Analyzed: 23-Aug-18						
GRO C6-C10	208	10.0	mg/kg	200		104	76.5-133			
DRO >C10-C28	217	10.0	mg/kg	200		109	72.9-138			
Total TPH C6-C28	425	10.0	mg/kg	400		106	78-132			
Surrogate: 1-Chlorooctane	*55.8*		mg/kg	*50.0*		*112*	*41-142*			
Surrogate: 1-Chlorooctadecane	*53.3*		mg/kg	*50.0*		*107*	*37.6-147*			
LCS Dup (8082216-BSD1)				Prepared: 22-Aug-18 Analyzed: 23-Aug-18						
GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133	3.08	20.6	
DRO >C10-C28	215	10.0	mg/kg	200		107	72.9-138	1.18	20.6	
Total TPH C6-C28	416	10.0	mg/kg	400		104	78-132	2.11	18	
Surrogate: 1-Chlorooctane	*53.9*		mg/kg	*50.0*		*108*	*41-142*			
Surrogate: 1-Chlorooctadecane	*51.8*		mg/kg	*50.0*		*104*	*37.6-147*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: GOODNIGHT MIDSTREAM	**BILL TO**
Project Manager: KIM MERRILL/SHANE ESTEP	P.O. #:
Address: P.O. BOX 8469	Company: ETECH
City: MIDLAND State: TX Zip: 79708	Attn: SHANE ESTEP
Phone #: 432-563-2213 Fax #:	Address: P.O. BOX 8469
Project #: 876-9521-000 Project Owner: GOODNIGHT	City: MIDLAND
Project Name: FORMER DCP PUMP STATION HISTORICAL RELEASE	State: TX Zip: 79708
Project Location: LEA CO., NM	Phone #: 432-563-2213
Sampler Name: GEOFF LEKING	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.			(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH	BTEX
H802348 1	BH 8		29'	G	1			X					X		8.22.18	1445	X	X
2	NWSW	4	26'													1450		
3	NESW	4	26'													1500		
4	SESW	4	26'													1505		
5	SWSW	4	26'													1510		
6	SESW	3A	14'													1540		
7	NSW	3	14'													1545		
8	SSW	3	14'													1550		
9	BH7		17'													1555		
10	BH 4A		20'	↓	↓			↓					↓		↓	1600	↓	↓

Relinquished By: Geoff Leking	Date: 8.22.18 Time: 1645	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.6c #197	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	REMARKS: RUSH kim@etechenv.com shane@etechenv.com geoff@etechenv.com

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

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City: MIDLAND State: TX Zip: 79708	Attn: SHANE ESTEP
Phone #: 432-563-2213 Fax #:	Address: P.O. BOX 8469
Project #: 876-9521-000 Project Owner: GOODNIGHT	City: MIDLAND
Project Name: FORMER DCP PUMPSTATION HISTORICAL RELEASE	State: TX Zip: 79708
Project Location: LEA CO., NM	Phone #: 432-563-2213
Sampler Name: GEOFF LEKINCH	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX										
H802348 9 11	NESW 24 17'	G	1			X					X		8.22.18	1605	X	X										

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

Relinquished By:	Date: 8.22.18	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1645		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: RUSH kim@etechenv.com shane@etechenv.com geoff@etechenv.com
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.6° #97

Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No

CHECKED BY: (Initials) T.O.

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

CARDINAL Laboratories

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

August 27, 2018

SHANE ESTEP

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: FORMER DCP PUMP STATION HISTORICAL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/24/18 15:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
SHANE ESTEP
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	08/24/2018	Sampling Date:	08/24/2018
Reported:	08/27/2018	Sampling Type:	Soil
Project Name:	FORMER DCP PUMP STATION HISTORIC	Sampling Condition:	Cool & Intact
Project Number:	876-9521-000	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: NSW 3A 14' (H802384-01)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2018	ND	1.90	95.0	2.00	1.48	
Toluene*	<0.050	0.050	08/25/2018	ND	1.83	91.4	2.00	1.15	
Ethylbenzene*	<0.050	0.050	08/25/2018	ND	1.85	92.6	2.00	1.44	
Total Xylenes*	<0.150	0.150	08/25/2018	ND	5.54	92.4	6.00	1.28	
Total BTEX	<0.300	0.300	08/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.0 %* *69.8-142*

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	08/25/2018	ND	201	101	200	1.56	
DRO >C10-C28*	**108**	10.0	08/25/2018	ND	214	107	200	4.26	
EXT DRO >C28-C36	**26.2**	10.0	08/25/2018	ND					

Surrogate: 1-Chlorooctane *92.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.6 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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Project Manager: KIM MERRILL / SHANE ESTEP	P.O. #:
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City: MIDLAND State: TX Zip: 79708	Attn: SHANE ESTEP
Phone #: 432-563-2213 Fax #:	Address: P.O. BOX 8469
Project #: 876-9521-000 Project Owner: GOODNIGHT	City: MIDLAND
Project Name: FORMER DCP PUMP STATION HISTORICAL RELEASE	State: TX Zip: 79708
Project Location: LEA CO., NM	Phone #: 432-563-2213
Sampler Name: GEOFF LEKING	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX									
H802384																									
1	NSW 3A 14'	G	1			X					X		8.24.18	0900	X	X									

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

Relinquished By: Geoff Leking	Date: 8.24.18 Time: 1540	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
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