

Electronic Correspondence

August 28, 2018

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

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) TPH Benzene BTEX Chlorides

Threshold Levels 5000 mg/kg 10 mg/kg 50 mg/kg 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:

# Criteria Value Ranking

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).

	Table 1           Summary of Delineation Sampling Analytical Results												
Sample ID Depth Date C6-C12 C28 C35 Total Benzene BTEX Chlorides (mg/kg) (mg/kg) (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				

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

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											
		Summar	y of Reme	ediation Sa	mpling An	-						
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								

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:

Health Jekin,

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

Attachment A Initial C-141 .

# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

pOY1816448635

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Printed Name:       Rolphility       Approved by Environmental Specialist:         Title:       E(AS)       Director       Approval Date:       6/13/2018         E-mail Address:       Figer Director       Conditions of Approval:       Attached         Image: Index of the second might	1220 S. St. Fran	ncis Dr., Sant	a Fe, NM 8750	5	S	anta F	e, NM 875	505					
Name of Company Goodulph Midstream       Contact Ruph Tijerina         Address 5910 N. Central Exp.y. Skin ES Do Balas, TY 5206       Telephone No. 214444-7001         Facility Name       Formar DCP Operating Company, LP (DCP)       Facility Type Pump Station         Surface Owner       State       API No. 30-025-08769 (non related closest well)         Unit Letter       Section       Township       Range       Feet from the Control NOF RELEASE         Unit Letter       Section       Township       Range       Feet from the Control North South Line Feet from the County Lea       County Lea         Unit Letter       Section       Township       Range       Feet from the County West       County Lea         Unit Letter       Section       Township       Range       Feet from the County West       NADURE       County Lea         Unit Letter       Section       Township       Range       Feet from the County West       NADURE       County Lea         Unit Letter       Section       Township       Range       Feet from the County Lea       County Lea         Source of Release Unit       Others of Release Unit       Volume of Release Unit       Volume of Release Unit       North         Was ManceCourse was Impacted, Describe Fully.*       Date and Hour       If YES, Volume Impacting the Watercourse.       North				Rel	ease Notifi	catio	n and Co	orrective A	ction				
Name of Company Goodhight Midstream       Contact Raph Tijerina         Address 5910 N. Central Exp.y. Skin ESD Dallas, TX 75206       Telephone No. 214444-7001         Facility Name       Former DCP Operating Company, LP (DCP)       Feelility Type Pump Station         Surface Owner       State       API No. 30-025-08769 (non related closest well)         Unit Letter       Section       Township       Range       Fer from the North/Sout Line       Feet from the Least/West Line       County Least         Unit Letter       Section       Township       Range       Fer from the North/Sout Line       Feet from the Least/West Line       County Least         Unit Letter       Section       Township       Range       Fer from the North/Sout Line       Pate and Hour of Occurrence       Date and Hour of Occurrence       Historical         Type of Release Crude oil       Volume of Release Link       Volume of Release Link       Volume of Release Link       Date and Hour of Discovery         Was Immediate Notice Given?       Yes X No       IYES, Volume Impacting the Watercourse.       IYES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       Date and Hour of Occurrence       Historical         Prover VI (Volot course of the term of the pump station.       Type S X No       IYES, Volume Impacting the Watercourse.         If a Watercourse was Impacted,							OPER.	ATOR		X Initi	al Report	П	Final Report
Address 5910 N. Central Expy. Suite 850 Dallas, Tx 75206       Telephone No. 214-444-7001         Facility Name Former DCP Operating Company, LP (DCP)       Facility Type Pump Station         Surface Owner State       APT No. 30-025-08769 (non related closest well)         LoccATION OF RELEASE       LoccATION OF RELEASE         Unit Letter       Section       Township         Rate       North/South Line       Feet from the least/West Line       County User         Latitude       22.422898       Longitude -103.271662       NAD83         NATURE OF RELEASE       NAD83         Type of Release Crude oil       Volume of Release Unk       Volume of Release Unk       Volume Recovered Unk         Source of Release Unk       Date and Hour of Coursence       Date and Hour of Discovery       Historical         Was Immediate Notice Given?       Yes       No       X Not Required       If YES, To Whem?         Was a Watercourse Resched?       Yes X No       If Yes, X Outme Impacting the Watercourse.       If Section and Remedial Action Taken.*         In the entry 10604 pump station's concrete pad.       Describe Cause of Problem and Remedial Action Taken.*       In the entry 10604 pump station's concrete pad.         Describe Cause of Problem and Remedial Action Taken.*       In the entry 10604 pump station's concrete pad.         Describe Acre Affected an arca approximately sevent	Name of Co	ompany G	oodnight Mi	idstream			Contact Ra	lph Tijerina					
Facility Name       Former DCP Operating Company, LP (DCP)       Facility Type Pump Station         Surface Owner       State       API No. 30-025-08769 (non related closest well)         LocATION OF RELEASE       LocATION OF RELEASE         Unit Letter       Section       Township       Range       Performance       EastWest Line       County         Latitude       32.422898       Longitude_103.274162       NAD83         NATURE OF RELEASE         Type of Release Unk       Volume Recovered Unk         Source of Release Unk       Volume Recovered Unk       Volume Recovered Unk         Was Immediate Notice Given?       If YES, To Whom?       Date and Hour       Historical         Was a Watercourse Resched?       Yes X No       If YES, Volume Impacting the Watercourse.       RECEIVED         By Olivia Y u at 1:24 pm, Jun 13, 2018       Describe Cause of Problem and Remedial Action Taken.*       The release(s) from an unknown source decurred approximately one handed forty (140) feet south of the pump station's concrete pul.         Describe Cause of Problem and Remedial Action Taken.*       The release(s) from an unknown source decurred approximately one handed forty (140) feet south of the source of Problem and Remedial Action Taken.*         The release(s) diffected and Cleasup Action Taken.*       The release(s) from an unknown source decurred approximately one handed forty (140) feet south of the pump station's c	Address 59	10 N. Cen	tral Expy. Su	ite 850 I	Dallas, Tx 7520	6							
LOCATION OF RELEASE         Unit Letter       Get(a)       Township       Range       Feet from the North/South Line       Feet from the Last/West Line       County         Latitude       322.5       366       Feet from the North/South Line       Feet from the Last/West Line       County         Latitude       324.2828/8       Longitude103.274162       NAD83         NATURE OF RELEASE         Type of Release Unk       Volume Recovered Unk         Was Immediate Notice Given?       If YES, To Whom?         Was Immediate Notice Given?       Yes       No X Not Required         By Whom?       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 18067604 an ear approximately serverty (70) feet long by ffly (50) feet wide in the pastrue south of the pump station 's concrete pad.         Describe Area Affected and Cleanup Action Taken.*       In the early 18067604 an ear approximately serverty (70) feet long by ffly (50) feet wide in the pastrue south of the pump station or facter.         Ih reareas(s) affored an area approximately serverty (70) feet long by ffly (50) feet wide in the pastrue south of the pump station or further delineation soil sampling indicates impact exists to depliks of three (3) and threar and hafth (3.5) feet below ground surface (bgs) whe			er DCP Oper	rating Co	mpany, LP (DC	CP)	Facility Type Pump Station						
Unit Letter       Section       Township       Range       Feet from the 1900       North       Peet from the 1490       East/West Line       County Lea         Latitude       3225       36E       1900       North       North       Here from the 1490       East/West Line       County Lea         Latitude       32.422.898       Longitude103.274162       NAD83         NATURE OF RELEASE       Volume of Release Unk       Volume Recovered Unk         Source of Release Crude oil       Volume of Release Unk       Volume of Release Unk       Date and Hour of Discovery         Historical       If Yes, To Whom?       Date and Hour       Historical       If Yes, To Whom?         By Whon?       Date and Hour       If Yes, To Whom?       If Yes, Xolume Impacting the Watercourse.       RECEIVED         By Olivia Yu at 1:24 pm, Jun 13, 2018       Describe Cause of Problem and Remedial Action Taken.*       RECEIVED       By Olivia Yu at 1:24 pm, Jun 13, 2018         Describe Area Affected an area proximately seventy (70) feet long by fifty (50) feet wide in the pasture south of the pump station 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 latt (3.5) feet below ground surface (bg) where hand auger refusal was observed. A delineation work plan for further delineation of the impact is attached.         I heredy certify that the in	Surface Ow	mer Stat	е		Mineral (	Owner	State					8769 (	non related
Unit Letter       Section       Township       Range       Feet from the 1900       North       Peet from the 1490       East/West Line       County Lea         Latitude       3225       36E       1900       North       North       Here from the 1490       East/West Line       County Lea         Latitude       32.422.898       Longitude103.274162       NAD83         NATURE OF RELEASE       Volume of Release Unk       Volume Recovered Unk         Source of Release Crude oil       Volume of Release Unk       Volume of Release Unk       Date and Hour of Discovery         Historical       If Yes, To Whom?       Date and Hour       Historical       If Yes, To Whom?         By Whon?       Date and Hour       If Yes, To Whom?       If Yes, Xolume Impacting the Watercourse.       RECEIVED         By Olivia Yu at 1:24 pm, Jun 13, 2018       Describe Cause of Problem and Remedial Action Taken.*       RECEIVED       By Olivia Yu at 1:24 pm, Jun 13, 2018         Describe Area Affected an area proximately seventy (70) feet long by fifty (50) feet wide in the pasture south of the pump station 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 latt (3.5) feet below ground surface (bg) where hand auger refusal was observed. A delineation work plan for further delineation of the impact is attached.         I heredy certify that the in					LOC	ATIO	N OF REI	LEASE					
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 Discovery       Historical         Was Immediate Notice Given?       If YES, To Whom?       Date and Hour         By Mhom?       Date and Hour       RECEIVED         By Mhom?       Date and Hour       RECEIVED         By Olivia Yu at 1:24 pm, Jun 13, 2018       Date and Hour         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 1960's a pump station was operated on the subject property. At an unknown time a release(s) from an unknown source occurred approximately one hundred fory (140) feet south of the pump station's concrete pad.         Describe Area 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 or february 21, 2018. Initial soil sampling indicates impact exists to	Unit Letter	Section	Township	Range				1	East/We	st Line	County		
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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: Printed Name: Printed Prin	In the early 1 one hundred Describe Are The release(s samples were and three and	960s a pur forty (140) a Affected a affected a collected b l a half (3.5	p station was feet south of t and Cleanup / n area approx by a third part	operated he pump	on the subject pro station's concrete cen.* eventy (70) feet lo an hand auger or	pad. ong by fi n Februa	fty (50) feet w	vide in the pasture	e south of t	the pump	station. Ini t exists to de	tial del	ineation soil three (3)
Signature:       OIL CONSERVATION DIVISION         Printed Name:       PAIDATIETINA         Printed Name:       PAIDATIETINA         Approved by Environmental Specialist:       Mapproved by Environmental Specialist:         Title:       EHS         Difector       Approval Date:         6/13/2018       Expiration Date:         E-mail Address:       Phone: Z144447001         See attached directive       Attached	regulations al public health should their o or the environ	ll operators or the envi operations h nment. In a	are required to ronment. The ave failed to a addition, NMC	o report an acceptane dequately OCD accept	nd/or file certain i ce of a C-141 rep v investigate and i	release n ort by th remediat	otifications and the NMOCD m the contaminati	nd perform correct arked as "Final R on that pose a thr	etive action eport" doe eat to grou	ns for release not reliand water	eases which ieve the oper , surface wa	may er ator of ter, hu	idanger liability man health
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Printed Name:     KATAR       Title:     EHS       DIFECTOR     Approval Date:       6/13/2018     Expiration Date:       E-mail Address:     Figer DA Code Night might	Signature:	KJ	Phi							19M		-	
E-mail Address: Y + i Expiration Date:     Approval Date:     Expiration Date:       Date:     6     12/18     Phone: 2144447001     See attached directive     Attached []	Printed Name	: Rol	phi	File	FINA		Approved by						
E-mail Address: Y     Conditions of Approval:       Date:     12/18       Phone: 2144447001   See attached directive       Attached	Title: E	HS	Dire	cFo	R			e: 6/13/2018	8 Ex	piration	Date:		
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1RP-5091

fOY1816448404

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# Attachment B Annotated Aerial Imagery



# Former DCP Pump Station Historical Release

Excavate 4' bgs

wsw o

SSW 2

Excavate 6.5' bgs

100 ft

ESW

Google Earth

@2018 Google





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.



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





# 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	been O=orp C=the	OD has replace ohaned, e file is	(	•						3=SW 4=S	,				
water right file.)	close	,	(	qua	rter	s a	re sr	nalles	t to lar	gest) (	NAD83 UTM in r	neters)	(	In feet)	
		POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code	basin	County				Sec	Tws	Rng	Х	K Y	Distance			Column
CP 00727		СР	LE	1	3	2	05	22S	36E	661130	0 3588673* 🧧	1143	267	212	55
CP 00727 CLW475753	0	СР	LE	1	3	2	05	22S	36E	661130	0 3588673* 🍯	1143	228		
L 11013	С	L	LE			3	10	22S	36E	663892	2 3586402* 🧧	2748	222		
CP 01318 POD2		СР	LE	3	3	3	10	22S	36E	663672	2 3586106 🧧	2879	260	180	80
CP 00469		СР	LE	1	2	3	06	22S	36E	659127	7 3588245* 🍯	3167	220	195	25
CP 01469 POD1		СР	LE	2	2	2	18	22S	36E	660234	4 3585869 🧲	3426	200	140	60
CP 00070		СР	LE	2	2	3	16	22S	36E	662604	4 3585071* 🧲	3567	220	170	50
CP 00070 CLW472929	0	СР	LE	2	2	3	16	22S	36E	662604	4 3585071* 🍯	3567	220	170	50
CP 00764 POD1		СР	LE	2	1	4	16	22S	36E	663006	6 3585079* 🍯	3619	4700	4000	700
CP 00539		СР	LE	4	3	2	30	21S	36E	659663	3 3591676* 🍯	4016	270	240	30
CP 00760 POD1		СР	LE	1	4	4	35	21S	36E	666347	7 3589567* 🍯	4182	5000		
CP 00761 POD1		СР	LE	4	3	1	01	22S	36E	666964	4 3588569* 🍯	4692	5000		
											Ave	rage Depth to	Water:	<b>663</b> 1	eet
												Minimum	Depth:	140 f	eet
												Maximum	Depth:	<b>4000</b> f	eet
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

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

# 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	г D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			5
Indian blanketflower	VNS, Southern	1.0	Ð
Parry penstemon	VNS, Southern	1.0	Ð
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D D
Shrubs:			U U
Fourwing saltbush	VNS, Southern	2.0	-
Common winterfat	VNS, Southern	2.0	D
Apache plume	VNS, Southern	1.0	F
T	v 140, Southera	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. ٠

Double above seed rates for broadcast or hydrosceding. ٠

If Parry penstemon is not available, substitute firecracker penstemon. . ø

If desert globernallow is not available, substitute scarlet globernallow or Neison globernallow. .

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.



# 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	š	
Plains bristlegrass	VNS, Southern	2.0	Ď	
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 boxVNS = 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 <a href="http://plants.usda.gov">http://plants.usda.gov</a>.



# Attachment F Analytical Results



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730		Project: 8.33 A oject Number: 18-091 oject Manager: ALAN H 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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730			Project Nun Project Mana	ber: 18-0		E		2	Reported: 22-Feb-18 13:	55
				·1 3-3.5' 521-01 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
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 802	21								
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 (PL	D)		119 %	72-1	48	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 %	41-1	42	8022105	MS	22-Feb-18	8015B	
Surrogate: 1-Chlorooctadecane			160 %	37.6-	147	8022105	MS	22-Feb-18	8015B	

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Celey D. Keene, Lab Director/Quality Manager



## 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	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Allalyte	Result	MDL	Lillint	Onits	Dilution	Baten	Analyst	Anaryzeu	Wethod	Notes
			Cardina	ıl Laborat	ories					
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 %	72-1	48	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 %	41-1	42	8022105	MS	22-Feb-18	8015B	
Surrogate: 1-Chlorooctadecane			401 %	37.6-	147	8022105	MS	22-Feb-18	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


KANE ENVIROMENTAL 8816 BIG VIEW DRIVE AUSTIN TX, 78730			Project Nun Project Mana	nber: 18-(		Ē		2	Reported: 22-Feb-18 13:	55
				-2 2.5-3'	.1)					
			1000	521-03 (So	) ) )					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
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 b	y 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 G	C 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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Celey D. Keene, Lab Director/Quality Manager



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
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### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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)	Sou	rce: H800521	-01	Prepared &	Analyzed:	22-Feb-18				
pH	7.94	0.100	pH Units		7.83			1.40	20	

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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Reported: -Feb-18 13:55
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### 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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Relinquished By Sampler - UPS - Bus - Other: 3.6%/ 3.85% **Relinquished By:** H80052 Delivered By: (Circle One) LEASE NOTE: Liability and Da alyses. All claims Sampler Name: Project Location: SW Project Name: 8,33 Acre Site Phone #: 903-235-9359 Fax #: City: Bullard Project Manager: Project #: Company Name: Address: 125 Pecan Valley Dr. ice. In no event shall Cardinal be liable for incidental or conse Lab I.D. FOR LAB USE ONLY Cardinal cannot account verhal channes Blease fafuritter barder to \$752.202.900 - 9 Laboratories S 18-09 uding those for negligence and any other 101 East Marland, Hobbs, NM 88240 NS (575) 393-2326 FAX (575) 393-2476 N Raph Relph Kane Environmental Employ Cardinal's liability and c Sample I.D 0 3-3/2 # The HANNEO 2-Harvey Euntie, UM cause whatsoever shall be de-Date: Date:/2.1 uental dam Project Owner: State: TX Zip: 75757 ages, including without limitation, busi nder by Ca **Received By** Received By: G)RAB OR (C)OMP waived unless made in writing and received by Cardinal within 30 days after # CONTAINERS Sample Condition Cool Intact Tres Tres GROUNDWATER WASTEWATER MATRIX < SOIL OIL flons, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE Phone #281-370-6580 9 OTHER P.O. #: city: Austru Attn: Alan Kane Address: 8816 Big View Company: Kane (Mitials) ACID/BASE PRESERV. any of the above stated < ICE / COOL OTHER BILL TO to the 2424 18-09 2/21 SAMPLING DATE paid by the client for the Inv > alany Kane Depne ast. net Fax Result: REMARKS: Phone Result: completion of the applicable 11:13 Sars CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 11:10 \$ TIME 1:20 LUSH! ORO wharvey agnail. Com □ Yes I No (. Add'l Phone #: Add'l Fax #: lorides ANALYSIS REQUEST

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



## 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)

		0000	003-01 (30	п <i>)</i>					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	iian Basin F	Environme	ntal Lab, I	L.P.				
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 %	75-1	25	P8G0501	07/04/18	07/04/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-1	25	P8G0501	07/04/18	07/04/18	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Method	ls							
% Moisture	5.0	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	015M							
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 %	70-1	30	P8G0306	07/03/18	07/03/18	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-1	30	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	

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### Test Trench 1 (5.5')

8G03005-02 (Soil)
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Invironme	ntal Lab, I	L <b>.P.</b>				
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 El	PA / Standard Method	S							
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-C	35 by EPA Method 80	15M							
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 %	70-1	30	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)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environmer	ntal Lab, l	L <b>.P.</b>				
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 Metho	ds							
% Moisture	6.0	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
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 %	70-1	30	P8G0306	07/03/18	07/03/18	TPH 8015M	
Fotal Petroleum Hydrocarbon C6-C35	128	26.6	mg/kg dry	1	[CALC]	07/03/18	07/03/18	calc	

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765	J	Fax: (432) 5	63-2213						
		Test Tre 8G03(	nch 2 (0' 05-04 (So	<i>,</i>					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by EPA / Sta	ndard Method	S							
Chloride	ND	1.00	mg/kg dry	1	P8G0308	07/03/18	07/03/18	EPA 300.0	

%

1

P8G0506

07/05/18

07/05/18

ASTM D2216

0.1

ND

% Moisture

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### Test Trench 2 (4.0') 8G03005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	iian Basin E	nvironmen	ital Lab, I					
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 Method	ls							
% Moisture	9.0	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
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 %	70-1	30	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)

8603005-06 (8011)												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note			
	Pern	1ian Basin F	Invironme	ntal Lab, I	L.P.							
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 %	75-1	25	P8G0501	07/04/18	07/04/18	EPA 8021B				
General Chemistry Parameters by EP	A / Standard Method	ls										
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-C3	35 by EPA Method 80	015M										
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 %	70-1	30	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)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes					
	Permian Basin Environmental Lab, L.P.													
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 / Sta	indard Metho	ds												
% Moisture	12.0	0.1	%	1	P8G0506	07/05/18	07/05/18	ASTM D2216						
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 8	015M												
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 %	70-1	30	P8G0306	07/03/18	07/03/18	TPH 8015M						
Surrogate: o-Terphenyl		139 %	70-1	30	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						

Permian Basin Environmental Lab, L.P.

### **Organics by GC - Quality Control**

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8G0501 - General Preparation	n (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)	Sou	ırce: 8G03005	5-03	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-G
Surrogate: 1,4-Difluorobenzene	0.0693		"	0.0638		109	75-125			

Permian Basin Environmental Lab, L.P.

### **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 0.00106 Benzene 0.0939 0.106 ND 88.2 80-120 3.09 20 mg/kg dry 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

Permian Basin Environmental Lab, L.P.

### General Chemistry Parameters by EPA / Standard Methods - Quality Control

### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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)	Sou	rce: 8F28001	-01	Prepared &	Analyzed:	07/03/18				
Chloride	1900	5.21	mg/kg dry		1900			0.00552	20	
Duplicate (P8G0308-DUP2)	Sou	ce: 8G02010	6-32	Prepared &	Analyzed:	07/03/18				
Chloride	31.1	1.04	mg/kg dry		31.5			1.30	20	
Matrix Spike (P8G0308-MS1)	Sou	rce: 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	%							-

Permian Basin Environmental Lab, L.P.

### **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:

Bun Barron

7/5/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Date:

	Relingful by Stan	Relinquished by:	JACH DAWNY									104 Itest Treach	$\downarrow$		(1-01 Test Trench	LAB # (lab use only)		ORDER #: 860 2005	(lab use only)		Sampler Signature: Surger Signature	ress: <u>P.O. Box 8</u> Midland	Project Manager: <u>Showne Ester</u> Company Name: <u>Etech Environmental &amp;</u>	1 JOO Rankín Hvy N	B M MAY B
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	Temperature Upon Receipt: $\mathcal{J}$ .	N B	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?												Metals: As Ag Ba Cd Cr Pb Hg : Volatiles Semi volatiles (BTEX 80219/5030 or BTEX 826						PO#:	Project Locifica		ID ANALYS
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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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project Number: Project Manager:		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	

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### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: Project Number: Project Manager:		Reported: 15-Aug-18 16:17
	, ,	(432) 563-2213	

### WSW 1

### H802260-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	y EPA Method 8	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 G	C 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	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safet P. O. BOX 8469 MIDLAND TX, 79708	с.	Project Num Project Mana	iber: 876 Iger: SHA		Reported: 15-Aug-18 16:17					
				BH 2 260-02 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
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	2-142	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	

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safet P. O. BOX 8469 MIDLAND TX, 79708					RMER DCP -9521-000 ANE ESTEP 2) 563-221	Reported: 15-Aug-18 16:17				
				NSW 2 260-03 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
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	

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Sa P. O. BOX 8469 MIDLAND TX, 79708					RMER DCP -9521-000 NE ESTEP 2) 563-221	Reported: 15-Aug-18 16:17				
				NSW 1						
			H802	260-04 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds	by EPA Method 8	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	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety P. O. BOX 8469 MIDLAND TX, 79708	y Solutions, In	с.	Project Num Project Mana	ber: 876 ger: SHA	-9521-000		FION HIST	1:	Reported: 5-Aug-18 16:	17
				E SW	<b>.:</b> I)					
			H8022	260-05 (Se	DII)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
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	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

### Volatile Organic Compounds by EPA Method 8021 - Quality Control Cardinal Laboratories

		Curun		01 4001 105						
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	8			
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	8			
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	8			
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			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

### 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	result	Linit	onto	Level	result	, diffe	Linits	10.2	Linit	110103
Blank (8081501-BLK1)				Prepared &	Analyzed:	15-Aug-18	3			
GRO C6-C10	ND	10.0	mg/kg	1	y					
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	3			
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	3			
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			

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

   RPD
   Relative Percent Difference

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

   \*\*\*
   Insufficient time to reach temperature.
  - Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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	Page 11
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ra 10	D
	Z
I P S	PL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	COMPANY NAME: GOODN GUT MIDSTREAM	HW/ FLESH	BILL TO	(1) A manufacture of a second seco		ANALYSIS REQUEST	
Project Manager:	" SHANK ESTEP	-	P.O. #:	_			
Address: 13000	WCR		Company: HTECH				
City:00にSS字	State: X	Zip:79726	Attn: KATI GOODMAN	2			
Phone #: ひひと-	425-7160 F		Address: BOODW LR 100	100			
Project #: 87	Project #: 876-9521-000 Project Owner: 6000/14/1	her: 6000NIGHT	City: COESSA				
Project Name:	Project Name: FURMER OLP PUMP STATION HISTORICAL RELEASE	STORICH RELEASE	State: TX Zip: 74726	26			
Project Location	Project Location: レビス Co., NM		Phone #: 43:	-7165	-		
Sampler Name: いせいFF	のちてていていてい		Fax #:				
FOR LAB USE ONLY			PRESERV. SAMPLING	ING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TIME	TPH BTEX		
1	NSW #		1	1520 1			
2	BHZ			1530			
	NSW 2			1535			
1-4	1 MEN			0401			
5	うい	K K	*	12251	*		
PLEASE NOTE: Liability ar analyses. All claims includi	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 daims 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	or any claim arising whether based in cor be deemed waived unless made in writin	ract or tort, shall be limited to the amount pe	aid by the client for the ler completion of the appl	licable		
Relinquished By:	Relinquished By: Date: Q.14, 18 Received/By: DIII Fax Result:	Received By:	MALL.	Phone Result: Fax Result:	□ Yes	No Add'l Phone #:     No Add'l Fax #:	
Starth Las		Amara	Supply	000	1	02	
Relinquished By	7: Date: Time:	Received By:	C		shaneg	shane getechany.com	
Delivered By	Delivered By: (Circle One) 2.22/	Sample Condition Cool Intact	dition CHECKED BY:		geatto,	geat Betechenv, com	
					1 1 1 1 1 1	3	

+ Cardinal cannot accent verbal channee Dlease fav written channes to (575) 202\_2228 Cool Intact

2.15c

(Initials)

RUSH ZUHR

,

Sampler - UPS - Bus - Other:



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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,

Whe Singh

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



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	Analyze	d 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 %	69.8-14	2						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	122 %	6 37.6-14	7						

### **Cardinal Laboratories**

\*=Accredited Analyte

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

Mite Sugar

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



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	Analyze	d 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 9	69.8-14	2						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 9	% 69.8-14	2						
TPH 8015M	mg/	′kg	Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result <100	Reporting Limit	Analyzed 08/16/2018	Method Blank ND	BS 226	% Recovery 113	True Value QC 200	RPD 1.35	Qualifier
GRO C6-C10* DRO >C10-C28*							C C		Qualifier
GRO C6-C10*	<100	100	08/16/2018	ND	226	113	200	1.35	Qualifier
GRO C6-C10* DRO >C10-C28*	<100 <b>7150</b>	100 100 100	08/16/2018 08/16/2018 08/16/2018	ND ND	226	113	200	1.35	Qualifier

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



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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 9	% 69.8-14	2						
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	2						
Surrogate: 1-Chlorooctadecane	163 9	% 37.6-14	-						

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


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		Analyze	d 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 %	69.8-14	2						
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 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	143 %	37.6-14	7						

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\*=Accredited Analyte

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Mite Sugar

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



### **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 SM4500CI-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

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

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	CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Company Name: CIDEDNICHT MUDSTR EAM/ STECH	IBCH	BILLTO	ANALYSIS REQUEST	
Project Manage	Project Manager: KIM MERRILLISHANE ESTEP	STEP	P.O. #:		
Address: 3000	DO W CR 100		Company:ETECH		
City: OD:255A		Zip:79726	Attn: KIATI GOOD MAN	MAN	
Phone #: 43 Z	Phone #: 식3 Zー 식25 - 2168 Fax #:		Address: iscab w cre voo	r ico	
Project #: 816	Project #: 816 - 9521 - 600 Project Ow	Project Owner Concilini CIAT	City: ODESSA		
Project Name:	Project Name: FORMAR OCP PUMP STATION HISTORCAC RELEASE	aral release	State: TX Zip: 79726	126	
Project Location	Project Location: レビチ ヒロリーズ		w w	7160	
Sampler Name: Coとのデデ	GEOTT LEKING		Fax #:		
FOR LAB USE ONLY		P. MATRIX	PRESERV. SAMPLING	ING	
Lab I.D.	Sample I.D.	G)RAB OR (C)OMF # CONTAINERS GROUNDWATER NASTEWATER SOIL DIL SLUDGE	ACID/BASE: CE / COOL DTHER :	TP4 BTEX	
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analyses. All claims includir service. In no event shall C: affiliates or successors arisir	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 Clerit, its subsidiaries, affliates 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.	Il be deemed waived unless made in writing a uding without limitation, business interruptions by Cardinal, regardless of whether such clain	nd received by Cardinal within 30 days af , loss of use, or loss of profits incurred by n is based upon any of the above stated r	r completion of the applicable Sent, its subsidiaries, saons or otherwise.	
Kelinquisned By:	Date: 8,15,18	Received By:	(11/1/2	Phone Result:  Ves No Add'I Phone #: Fax Result: Yes No Add'I Fax #:	
Relinquished By:	Ching	Received By:	Makye	kim @ etec shane @ etec	
Delivered By: (Circle One)	2.0c		tion CHECKED BY: (Initials)	RILAN VUUR	
Sampler - UPS - Bus - Otner:	//	1.952 HYes HYes	0 TP-#75		

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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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project Number: Project Manager:		Reported: 17-Aug-18 14:50
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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

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project Number: 876 Project Manager: SH/		Reported: 17-Aug-18 14:50
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### SSW 1 3'

### H802300-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
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	C 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

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safet P. O. BOX 8469 MIDLAND TX, 79708	y Solutions, In	с.	Project Num Project Mana	nber: 876 ager: SHA	-9521-000		FION HIST	1	Reported: 7-Aug-18 14:	50
				SW 2 2'						
			H802	300-02 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
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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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Sa P. O. BOX 8469 MIDLAND TX, 79708	fety Solutions, In	с.	Project Num Project Mana	nber: 876 ager: SHA	-9521-000	PUMP STAT	FION HIST	1	Reported: 7-Aug-18 14:	50
				BH 5-5' 300-03 (So	SI)					
			11602	500-05 (50	)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds	by EPA Method 8	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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ETECH Environmental & Safe P. O. BOX 8469 MIDLAND TX, 79708	c.	Project Nun Project Mana Fa: <b>B</b> I	hber: 876 ager: SHA (To: (43) H 1 6.5'	NE ESTEP 2) 563-221	Reported: 17-Aug-18 14:50					
			H802	300-04 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds b	y 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 G	C 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	

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ETECH Environmental & Safe P. O. BOX 8469 MIDLAND TX, 79708	c.	Project Num Project Mana Fay	nber: 876 ager: SHA « То: (43) Г 1 7.5'	ANE ESTEP 2) 563-221	Reported: 17-Aug-18 14:50					
				300-05 (So	)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Volatile Organic Compounds b	y 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 G	C 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	

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ETECH Environmental & Sa P. O. BOX 8469 MIDLAND TX, 79708	C.	Project Nun Project Mana	nber: 876 ager: SHA		Reported: 17-Aug-18 14:50					
			BI	H 4 12.0'						
			H802	300-06 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds	by EPA Method 8	021								
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 C	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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ETECH Environmental & S P. O. BOX 8469 MIDLAND TX, 79708		Project Nun Project Mana	nber: 876 ager: SHA		1	Reported: 17-Aug-18 14:50				
			NE	SW 2 9.0	)'					
			H802	300-07 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds	s by EPA Method 8	021								
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 (PI	D)		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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ETECH Environmental & Sat P. O. BOX 8469 MIDLAND TX, 79708	fety Solutions, Inc		Project Num Project Mana Fax SE	sber: 876 ager: SHA To: (432 SW 2 9.0	-9521-000 NE ESTEP 2) 563-221	PUMP STA <sup>-</sup> 3	TION HIST	1	Reported: 7-Aug-18 14:	50
			H802	300-08 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds	by EPA Method 8	021								
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 C	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

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Sa P. O. BOX 8469 MIDLAND TX, 79708	C.	Project Num Project Mana Fay	iber: 876 ager: SHA	NE ESTEP 2) 563-221	Reported: 17-Aug-18 14:50					
			H802	300-09 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Volatile Organic Compounds	by EPA Method 8	021								
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 (PIL	))		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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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Sat P. O. BOX 8469 MIDLAND TX, 79708	fety Solutions, Ind	2.	Project Num Project Mana Fax	ager: 876 Ger: SHA	-9521-000 NE ESTEP 2) 563-221	PUMP STA <sup>-</sup> 3	FION HIST	1	Reported: 7-Aug-18 14:	50
			SW	SW 2 9.0	0'					
			H802	300-10 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds	by EPA Method 8	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 C	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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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: Project Number: Project Manager:		Reported: 17-Aug-18 14:50
	Fax To:	(432) 563-2213	

### Volatile Organic Compounds by EPA Method 8021 - Quality Control Cardinal Laboratories

		Curun		01 4001 105						
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	3			
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 &	z Analyzed:	16-Aug-18	3			
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 &	z Analyzed:	16-Aug-18	3			
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 & Analy	zed: 17-Aug-18	8	
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	

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

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8081702 - Volatiles										
LCS (8081702-BS1)				Prepared &	Analyzed:	17-Aug-18	3			
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	3			
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			

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

### Petroleum Hydrocarbons by GC FID - Quality Control

~	<b>T I I I</b>
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Carumar	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	3			
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	3			
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	3			
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			

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

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

Celeg D. Keine



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

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8081701 - General Prep - Organics										
LCS (8081701-BS1)				Prepared &	Analyzed:	17-Aug-18	8			
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	8			
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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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

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

Celeg D. Keine

+ Cardina	Sampler - UPS	Delivered By		Relinquished By:	STO B		Relinguished Rv.	analyses. All claims inclu service. In no event shall	PLEASE NOTE: Liability	1	2	2	4	S		()	N		Lab I.D.	FOR LAB USE ONLY	Sampler Name: Cie Ore	Project Location: LEA	Project Name:	Project #: 876	Phone #: 432	City: COSSSA	Address: 3000	Project Manag	Company Nan				
conner	- Bus - Other:	Delivered By: (Circle One)		0	E Contraction of the contraction		sing out of or related to the performance of s	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 and a soft or one polica soft or on the applica soft as a long of the application of the appl	and Damages. Cardinal's liability and client's	NW SW 2 9.0	N N	2	1	-	BH 1 6.5	27	- SSW 2 2	1	Sample I.D.		"Geore Leking	ON: LEA CO, NM	Project Name: FORMER DEP PUMP STATION HIST	-9521-000	-563-2260	1	00 W CR 100	SIM MERRIC !	Company Name: GOODNICONT MINSTREPAN	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		abora	ARDI
U	ducton	101	Time:	F	1020 Z	04	Services hereunder by Cardina	se whatsoever shall be deems antal damages, including witho	Cardinal's liability and client's exclusive remedy for any claim arising whether based			0	101			×			G)RAB OR (C)OMP				STIFTION HUST	Project Owner: GUODNIGHT	Fax #:	State: TX Zi		SHANNE ESTE	RENAM / ETTECH	obbs, NM 88240 (575) 393-2476		torie	ANE
	Cool Intact	Sample Con		eceived By:	Valuak.	Necelved by:	I, regardless of whether such cl	ed waived unless made in writing ut limitation, business interruption		*						*		5	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX			RELEASE	DODNIGHT		Zip:79726		0				N N	F
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Page 18 of 18



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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 %	69.8-14	2						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	02.14		,						
Surroguie. I Chiorobelane	92.1 9	% 41-142							

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	69.8-14	2						
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							

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.8-14	2						
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	2						
Surrogate: 1 enteropetane									

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.8-14	12						
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	2						
			17						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.8-14	2						
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	,						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	69.8-14	2						
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 9	37.6-14	7						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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. Keine

Celey D. Keene, Lab Director/Quality Manager

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By:	Malfa Lluur	analyses, All claims includin service. In no event shall Ca affiliates or successors arisin	DI EASE NOTE - Liability an	б	U	, LC	61	17	1	Lab I.D.	Sampler Name: GEGEF	Project Location	Project Name: Fi	Project #: 876	Phone #: 432-563	city: MIDLAND	Address: P.O -	Project Manager	Company Name
	4	5	those for negligence and any other cav linal be liable for incidental or consequ out of or related to the performance of	d Damonoe Cardinale lisblike and electric	NWSW 3 10	SW SW 3 11	SESIN 3 II'	NESW 3 111	BH 6 141	SESW IA q1	Sample I.D.	GEOFF LEPING	10	Project Name: FORMER DUP POMP STATION HISTORIUM RELEASE	Project #: 876 - 8521 - 000 P	-2213		BOX 8469	5	Company Name: GOODNIGHT MIDSTREAM
3.62 #54	Date: Time:	Time: 1640	e whatsoever shall be tal damages, including envices hereunder by C	ovelining remode for a										low HISTU	Project Owner:Ci & obrucciti	Fax #:	State: W		SHANE	TREAM 1
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CHECKED BY:		Y	id to the amount paid within 30 days aft profits incurred by the above stated n		K					8.17,18	DATE .		Phone #: \ 52~565~ 2215	Zip:74	City: MIDLAND	Address: P. D. Box 5469	Attn: SMANE ESTEP	Company: ETECH		BILL TO
		Phone Kesult: Fax Result: REMARKS:	aid by the client for ter completion of the client, its subsidia easons or otherwis		650	1645	1640	1635	1630	1000	TIME		C127 -	208		8469	REP			(1) A set of the se
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+ Cardinal cannot accent verbal channes Dlease fav written channes to 18751 202.9298



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project Number: 8 Project Manager: S		Reported: 23-Aug-18 14:23
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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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708	Project: Project Number: Project Manager:		Reported: 23-Aug-18 14:23
,	Fax To:	(432) 563-2213	

### BH 8 29'

### H802349-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
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 GO	C 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	

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Sa P. O. BOX 8469 MIDLAND TX, 79708	fety Solutions, In	с.	Project Nun Project Mana	nber: 876 ager: SHA	-9521-000	PUMP STA <sup>-</sup> 3	FION HIST	2	Reported: 3-Aug-18 14:	23
			NW	<b>SW4 20</b>	5'					
			H802	349-02 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
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 (PIL	))		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	

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ETECH Environmental & Sa P. O. BOX 8469 MIDLAND TX, 79708	Project Nun Project Mana Fa: NE	nber: 876 ager: SHA	NE ESTEP 2) 563-221	Reported: 23-Aug-18 14:23						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Volatile Organic Compounds	by EPA Method 8	021								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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ETECH Environmental & Safe P. O. BOX 8469 MIDLAND TX, 79708	Project Nun Project Mana Fa: SES	nber: 876 ager: SHA	NE ESTEP 2) 563-221	Reported: 23-Aug-18 14:23						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Volatile Organic Compounds b	y 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 G	C 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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Celey D. Keene, Lab Director/Quality Manager


ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project Nun Project Mana Fax	Project: FORMER DCP PUMP STATION HIS1 Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213					Reported: 23-Aug-18 14:23		
			~	'SW 4-26 349-05 (So							
			11002	547-05 (50	,,					]	
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	al Laborat	tories						
Volatile Organic Compounds	by EPA Method 8	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 C	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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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project Num Project Mana Fay	ber: 876 ager: SHA	-9521-000 ANE ESTEP 2) 563-221		FION HIST	57 Reported: 23-Aug-18 14:23			
			H802	349-06 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
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 GO	C 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		

**Cardinal Laboratories** 

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project Nun Project Mana Fa:	nber: 876 ager: SHA x To: (432	-9521-000	PUMP STAT	FION HIST	Reported: 23-Aug-18 14:23		
				SW 3 14'						
			H802	349-07 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds	by EPA Method 80	)21								
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 (PII	D)		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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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project Num Project Mana Fax	Project: FORMER DCP PUMP STATION HIS1 Reported: Project Number: 876-9521-000 23-Aug-18 14: Project Manager: SHANE ESTEP Fax To: (432) 563-2213 SSW 3 14' H802349-08 (Soil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
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	C 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	

**Cardinal Laboratories** 

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project: FORMER DCP PUMP STATION HIS1 Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213 BH 7 17'						Reported: 23-Aug-18 14:23		
			H802	349-09 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Volatile Organic Compounds b	y 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 G	C 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		

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Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project: FORMER DCP PUMP STATION HIS1 Project Number: 876-9521-000 Project Manager: SHANE ESTEP Fax To: (432) 563-2213 BH 4A 20'						Reported: 23-Aug-18 14:23		
			H802	349-10 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	al Laborat	tories						
Volatile Organic Compounds	by EPA Method 8	021								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 (PIL	))		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		

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ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND TX, 79708			Project Nun Project Mana Fa:	nber: 876 ager: SHA	ANE ESTEP 2) 563-221	FION HIST	Reported: 23-Aug-18 14:23			
				349-11 (So	-					
			11002	545-11 (50	,m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Volatile Organic Compounds	by EPA Method 8	021								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 (PII	))		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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469	Project Number:		Reported: 23-Aug-18 14:23
	MIDLAND TX, 79708	Project Manager:		
I		Fax To:	(432) 563-2213	

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

		Cardin	al Lab	oratories						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8082304 - Volatiles										
Blank (8082304-BLK1)				Prepared &	Analyzed:	23-Aug-18	3			
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	3			
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	3			
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			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

# Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8082216 - General Prep - Organics										
Blank (8082216-BLK1)				Prepared: 2	22-Aug-18	Analyzed: 2	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: 2	22-Aug-18	Analyzed: 2	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: 2	22-Aug-18 A	Analyzed: 2	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			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

(EFIS 382-2006 FAX (EFIS 382-2016       Company Name:     Company:     E_IC_U       Project Manager:     CONDUCAT     NUSTREPAR     P.0. #       Address:     F.O.     BOX     SH4     Company:     E_IC_U       Project Manager:     C.O.     BOX     SH4     Company:     E_IC_U       Project Manager:     C.O.     BOX     SH4     Company:     E_IC_U       Project Manue:     F.O.     BOX     SH4     Company:     E_IC_U       Project Location:     L.E.P. C.O.     N.N     Sampler Inter     Box     Box     Box       Sampler Inter:     Sampler Inter:     Sampler Inter     BOX     BOX     BOX     BOX       Project Location:     L.E.P. C.O.     N.N     Box     Box     Box     Box     Box       Sampler Inter:     Sampler Inter     BOX
BILL TO       EY     P.O. #:       Ip: T9 T0 8     Atm:SHAWE STEP       Address:P.O. & C.Y. MID LANNE     Address:P.O. & C.Y. MID LANNE       TRUKAL REFER     State:TX     Zip: T0 T0 S       Address:P.O. & C.Y. MID LANNE     Fax #:       Phone #: H32-563-7213     Phone #: H32-563-7213       Immarking water later to come of the state interplane interpl
BILL TO       company: ETECH       Address: P.O. Box 9 469       Diry: TM ID LAND       State: TX     Zip: TQ TOS       PRESERV     SAMPLING       PRESERV     SAMPLING       ACID/BASE     DATE       TIME     DATE       TIME     SZ2.18       H45     SZ6       V     S55       STREST V     SAMPLING       SZ2.18     H45       V     S55       SZ2.18     H45       SZ2.18     H45       SZ2.18     H45       SZ2.18     H45       SZ2.18     H45       SZ55     SS6       SZ55     SS6       SZ55     SS6       SZ55     SS6       SZ2.18     H45       SZ55     SS6       SZ65     SZ6       SZ65     SZ6       SZ65     SZ6       SZ65     SZ6       SZ65     SZ6 <t< td=""></t<>
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Company Name: GOODUCAHT	MIDSTREAM	3	BILL TO	The first of the f		AN	ANALYSIS REQUEST	
Project Manager:	Project Manager: KIM MERRILL	STANE ESTER	Ð	P.O. #:					
Address: P.O.	Address: P.J. BOX 8469			Company:EVECH					
City: MIDLAND	10	State: X	Zip:79708	Attn:SHAVE ESTEP	EP	_			
Phone # 432	Phone #: 432-563-2213 Fax #:	) Fax #:		Address: P.O. BOX & 469	P34 8				
Project 非公しつ	Project まどうら-95ン1-000 Project Owner:Good Nilch	Project Owner:	-1	City: MIDLAND					
Project Name:FcN	AMER DCP RUMP	STATION HIST	JOHN STREET	State: 7X Zip: 79708	708				
Project Location: LEA	LEA COI NM	2		Phone #:432-563- 2213	3-2213				
Sampler Name:CyCCFF	NECHTE LEKING	Non		Fax #:					
FOR LAB USE ONLY	1		MATRIX	PRESERV. SAMPLING	LING				
Lab I.D. 9 14602 348	Sample I.D.		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TIME	TPH	-		
	NESIN ZA	1-1			-	$\langle \cdot \rangle$	+		
PLEASE NOTE: Liability and I analyses. All claims including 1 service. In no event shall Card affiliates or successors arising	bamages, Cardinal's llability and cl hose for negligence and any other inal be liable for incidental or consi- tor of or related to the performance	ient's exclusive remedy for an cause whatsoever shall be de equental damages, including v	PLEASE NOTE: Liability and Damages. Cardina'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 applicabl source. In one event shall Cardinal be liable for incidental or consequential damages, including within mitting, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, artifiates or successor arising our to for related to the nerforment of sources to leventary to client the subsidiaries.	or tort, shall be limited to the amount precived by Cardinal within 30 days a oss of use, or loss of profits incurred be based use an of the obtain started by the started to the starte	haid by the client for the fler completion of the a y client, its subsidiaries	a pplicable s,		-	
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Relind્પપ્રેક્રમંed By:	0	Date: Time:	Received By:	J		Shave Kim D	etecho	singule g electrenu, com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other	: (Circle One) - Bus - Other:	0.62 #	Sample Condition Cool Intact	on CHECKED BY: (Initials)		geoff(	neted	geoff one technery . com	
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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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	% 69.8-14	2						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	7						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Date:     Received By:       Time:     Time:       Cle One)     Sample Condition       Cool     Intact       (Initials)	MAL A	y claim arising whether based in contract or tort, shall be limited to the amount paid enmed waived unless made in writing and received by Cardinal within 30 days after without limitation, business interruptons, loss of ruse, or loss of profits incurred by of dinal, regardless of whether such claim is based upon any of the above stated rea	X X 8.24,16	# CONTAINERS GROUNDWATER WASTEWATER	MATRIX	- 6	R DEP PUMP STRATION HISTORICAL REPERTS	3 / 92/3 Fax #:	State: 7X Zip: 79 768	L STAND SYNC	-17	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		ooratories	RDINAL
geoff of etecheny, com	Phone Result:	plicable	0960 XX	TPH BTEX							ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		

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