

Electronic Correspondence

October 21, 2014

Dr. Tomas Oberding State of New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, NM 88240 tomas.oberding@state.nm.us

Re: Corrective Action Plan Amendment

LINN Energy, 7 Rivers Queen Unit 60

Legal: Unit L, Section 35 T22S R36E, 2605 FSL & 1280 FWL, Lea County, NM

API #: 30-025-28122

Lat-Long: 32.3482077157592, -103.257434938142

Event No. (OCD): 1RP-3213

Dear Tomas:

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

Current Project Status

- 1. The status of the remediation of the site to date is as follows:
- 2. The impacted area is approximately 110' long 90' wide 6' deep.
- 3. There are lines within the confines of the excavation that are suspended approx. 6' while the excavation is open.
- 4. All side walls of the excavation below the regulatory threshold levels of 1,000 mg/kg chlorides, 5000 mg/kg TPH.
- 5. The bottom of the excavation still has elevated levels of chlorides ranging from 1800 to 5040 mg/kg. A map showing the sample locations and analytical results along with a copy of the analysis is attached.
- 6. The presence of the lines has restricted further excavation due to safety concerns. Two (2) soils borings via hand auger were advanced within the bottom of the excavation to attempt to delineate the vertical extent of the impact. SP2 400 mg/kg at 12', SP3 272

mg/kg at 18' The results of the laboratory analysis of samples collected from the bottom of the soil borings are attached.



A photograph of the site is provided below:

Proposed Corrective Action

LINN is proposing an amendment to the corrective action to this site. The factors used to determine this corrective action include first the safety of all persons related to performing additional excavation within the site. In addition, based upon available data, groundwater in the area is believed to be in excess of 125 feet. The corrective actions evaluated for the site (based upon the above) are presented as follows:

- 1. Backfill with clean compacted fill material.
- 2. Apply a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material to within 1.5 2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation.

3. Installation of a 20 mil polyethylene liner in the bottom of the excavation, then backfill with clean compacted fill material to within 1.5 – 2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation

After review of the above options, LINN believes, the best approach is Option 2, utilizing the application of a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material to within 1.5-2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation. Using gypsum will effectively ensure that any residual chlorides in the bottom of the excavation will not migrate further vertically and not cause any adverse impact to the reclamation of the site.

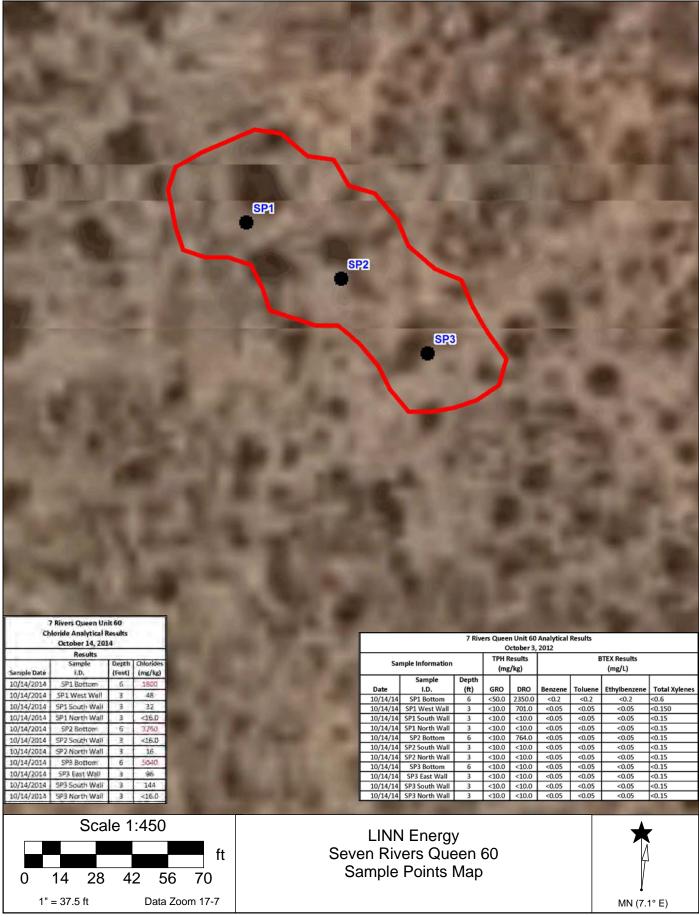
Thank you for your assistance on this matter. Also, attached is the initial C-141 for your reference. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Mr. Brian Wall at (575) 738-1739 (Office) or via email at bwall@linnenergy.com or myself at (432) 563-2200 (office) or via email at kit@etechenv.com.

Respectfully:

Kit Prichard

Environmental Professional





Data use subject to license.

© DeLorme. XMap® 8.



October 15, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SRQU #60

Enclosed are the results of analyses for samples received by the laboratory on 10/14/14 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Reported: 10/15/2014

Project Name: SRQU #60
Project Number: 253-5377-000
Project Location: LEA COUNTY, NM

Sampling Date: 10/14/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 BOTTOM 6' (H403154-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.200	0.200	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.200	0.200	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.600	0.600	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<1.20	1.20	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	10/15/2014	ND	416	104	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	2350	50.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	97.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	132 9	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014 Reported: Soil

10/15/2014 Sampling Type: Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 1 W. WALL 3' (H403154-02)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/15/2014	ND	416	104	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	701	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	90.5		7						

110 % 52.1-176 Surrogate: 1-Chlorooctadecane

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 1 S. WALL 3' (H403154-03)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2014	ND	416	104	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	86.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 9	52.1-17	6						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Sample ID: SP 1 N. WALL 3' (H403154-04)

LEA COUNTY, NM

Project Location:

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2014	ND	416	104	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	84.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.1	% 52.1-17	6						

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KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Project Number: Sample Received By: 253-5377-000 Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 2 BOTTOM 6' (H403154-05)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 61-154							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	10/15/2014	ND	400	100	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	764	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	92.9	% 47.2-15	7						

114 % 52.1-176 Surrogate: 1-Chlorooctadecane

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

 Received:
 10/14/2014
 Sampling Date:
 10/14/2014

 Reported:
 10/15/2014
 Sampling Type:
 Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 2 S. WALL 3' (H403154-06)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2014	ND	400	100	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	80.3 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.4 9	52.1-17	6						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP2 N. WALL 3' (H403154-07)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2014	ND	400	100	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	90.4	% 47.2-15	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

102 %

52.1-176



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014 Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 3 BOTTOM 6' (H403154-08)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	10/15/2014	ND	400	100	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	87.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99 3	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 99.3 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil
Project Name: SRQU #60 Sampling Condition: Cool

Project Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy PerezProject Location:LEA COUNTY, NM

Sample ID: SP3 E. WALL 3' (H403154-09)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	< 0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	< 0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/15/2014	ND	400	100	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	89.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.8	% 52.1-17	6						

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10/14/2014



Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date:

Reported:10/15/2014Sampling Type:SoilProject Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP3 S. WALL 3' (H403154-10)

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	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/15/2014	ND	400	100	400	3.92	
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	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	92.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 9	% 52.1-170	6						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

 Received:
 10/14/2014
 Sampling Date:
 10/14/2014

 Reported:
 10/15/2014
 Sampling Type:
 Soil

Reported:10/15/2014Sampling Type:SoilProject Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 3 N. WALL 3' (H403154-11)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	< 0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	< 0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	94.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 9	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Kit Prichure		P.O. #: 28-5377-000	
Address:		Company: Line Energy	
City: State:	Zip:	Attn:	
Phone #: Fax #:		Address:	
Project #: 253 - 5377 - 000 Projec	Project Owner:	City:	
Project Name: SRQU#60		State: Zip:	
Project Location: Europe, NIM	7	Phone #:	
Sampler Name: Terry Oxform.	77	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Sample	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	CL. TPH BTEX
Spi Botton 6	\	V 10-15-25H	V < / /
2 Sp1 W. Wall 3"	~		
3 Sp1 S, wall 3!			
S SP2 Botton 6			
6 502 Simil 3			
JSP2 N. wall3'			
Bottom			
· 10 503 E. Wall 3			
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether bashed in contract or tort, yfull by finged manayers. All claims including those for negligence and any other cause whatsoever shall be deemed whether these made in writing and received by Cardinal's renice in no sweet shall Cardinal in labils for included any other cause whatsoever shall be deemed whatsoever in the cause of the cause whatsoever shall be deemed whether which are deemed whether the cause of	Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, whall be regigations and any other cause whateover in that the desented variety unless made in writing and received by C. the for increased or consensional desented variety of the contract of	tort, shall be invited to the amount paid by the client for the ceived by Cardinal within 30 days after completion of the applicable	
Relinquished By: Time: Time:	Received By:	Phone Result: Fax Result: REMARKS:	sult:
Relinquished By: Date:	Received By:	0	Rush!
Delivered By: (Circle One)	<u></u>	CHI	
Sampler - UPS - Bus - Other:	Cool Intact Yes Yes	(Inflials)	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company Name:	E-fect Env	BILL TO	ANALYSIS REQUEST
Project Manager:		P.O. #: 253 5377 - 000	
Address:		Company: Lina Energy	
City:	State:	Zip: Attn:	
Phone #:	Fax#:	Address:	
Project #: 253	Project #: 253-5377-000 Project Owner:	ner: City:	
Project Name:	SR QU #60	State: Zip:	
Project Location:	" Eurice NM	Phone #:	
Sampler Name:	Terry Osborn	Fax#:	
FOR LAB USE ONLY		MATRIX	X
Lab I.D. 403 154	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CL TPH BTE
=	Sp3 N. wall 3	Jo-H-24	< <
FACE NOTE: LANGE	Deposes Contact to the contact of th		
LEASE NOTE: Liability an valyses. All claims including prvice In no event shall Ca	d Damages. Cardinal's liability and client's exclusive remedy of those for negligence and any other cause whatsoever shall githose for negligence and any other cause whatsoever shall githat be liable for incidental or consequental damages, inclu-	LEASE NOTE: Liability and Damages. Condition's liability and client's exclusive remedy for any claim arising whether based in contract or toot, and be limited to the amount paid by the client for the projects. All claims including those for negligence and any other cause whithoever shall be deterred watered unless made in writing and recogned by Chadinal which 30 days after competion of the applicable service. In no event shall Caudinal be leable for incidental or consequental damages, including without inhallon, business interruptions, lose of time, or their or profess in course by referred as a policable.	vitte Vitte applicable aries, s

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

(1)

Sample Condition
Cool Intact
Yes 1 Yes
No 1 No

CHECKED BY:

Relinquished By:

Time S

Phone Result: Fax Result: REMARKS:

☐ Yes

O No

Add'l Phone #: Add'l Fax #:

Rush!

Time:

Relinquished By:



September 09, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SRQU #60

Enclosed are the results of analyses for samples received by the laboratory on 09/08/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014

Reported: 09/09/2014
Project Name: SRQU #60
Project Number: 253-5377-000
Project Location: LEA COUNTY, NM

Sampling Date: 09/08/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 4' (H402785-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND 4.86		81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	35.1	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	86.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.0	% 63.6-15	4						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014 Sampling Date: 09/08/2014

Reported: 09/09/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 2 12' (H402785-02)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
<0.300	0.300	09/09/2014	ND					
104 %	6 89.4-12	6						
mg/kg		Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
400	16.0	09/09/2014	ND	416	104	400	0.00	
mg/kg		Analyzed By: ms						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<50.0	50.0	09/09/2014	ND	168	84.0	200	4.11	
258	50.0	09/09/2014	ND	186	92.9	200	2.47	
	Result <0.050 <0.050 <0.050 <0.150 <0.300 104 % mg/l Result 400 mg/l	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD < 0.050

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014 Sampling Date: 09/08/2014

Reported: 09/09/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 3 18' (H402785-03)

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	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 % 89.4-120 mg/kg		6						
Chloride, SM4500Cl-B			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	93.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

(0/0) 020-2020 1 77 (0/0)	2011	ANALYSIS REQUEST
Company Name: Elech	BIL	
	1.0	
	Company: Lina Energy	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: 2 53 - 5377 - 000 Project Owner:	Owner: City:	
3	State: Zip:	
1 2a co	Phone #:	
Terry	Fax #:	2 5
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.		Chlare TPh BTE
1 60) 4,	V 9-8-17 12:00	
	_ <	20
3 Sp3 18	V V V V V V V V V V V V V V V V V V V	
	the state of the same and the same of the state of	client for the
	The state of the s	Public on the

494

Sample Condition
Cool Intact
Ves Ves

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Relinquished By:

Date: 8-14 Time: Date: Time:

Phone Result: Fax Result: REMARKS:

☐ Yes

□ No

Add'l Phone #: Add'l Fax #:

Rushli

completion of the applicable

30

Received By:

analyses. All claims including those for neg service. In no event shall Cardinal be liable

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

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

Release Notification and Corrective Action

Form C-141

Revised October 10, 2003

						OPERATOR							
Name of Company: Linn Operating						Contact: Brian Wall							
Address: 2130 W. Bender Hobbs, NM 88240						Telephone No.: 575-738-1739							
Facility Name: Seven Rivers Queen Unit # 60						Facility Typ	e: Oil Producer						
Surface Owne	er: Privat	e		Mineral O	wner:	: API No.: 30-025-28122							
				LOCAT	ΓΙΟΝ	N OF RELEASE							
Unit Letter Section Township Range Feet from the Nor						th/South Line Feet from the East/West Line County							
L 34 22S 36E 2605 South 1280 West Lea								Lea					
	•		Latitud	e: 32.34820771	57592	Longitude	: -103.25743493	38142					
				NATU	JRE (OF RELE							
Type of Releas							Release: 15 bbls			Recovered:			
Source of Release: 2 7/8 Steel pipeline						08/04/2014		e:		Hour of Di 4 2:45pm			
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Require						If YES, To Jeff Robert	Whom? son-BLM / Toma	as Ober	ding- NM (OCD			
By Whom? Brian Wall						Date and H	Iour 08/06/2014 (0700					
Was a Watercourse Reached? ☐ Yes ☒ No						If YES, Vo	olume Impacting the	he Wate	ercourse.				
If a Watercourse was Impacted, Describe Fully.*:													
Describe Cause Airplane passin			dial Action	Taken.*: Old 27	7/8 stee	l flow line has	s a pinn hole could	d not se	e leak from	well. Leak	is in sanddunes.		
	ite: Go so	uth on 207 for	r one mile			asin road go s	ix miles then turn	left on	to pipeline	rightway fo	or 3 and a half miles		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.													
OIL CONSERVATION DIVISION									<u>ON</u>				
Signature:													
Printed Name:	Brian Wa	11				Approved by District Supervisor:							
Title: Construc	ction Foren	nan II				Approval Dat	e:		Expiration 1	Date:			
E-mail Address Date: 08/06/20			m hone: 806-	367-0645		Conditions of	Approval:			Attache	d 🗌		

^{*} Attach Additional Sheets If Necessary