December 21, 2015

HARLEY EVERHART
FRONTIER FIELD SERVICES
4200 SKELLY DRIVE, SUITE 700
TULSA, OK 74135

RE: ABO 16" LATTERAL

Enclosed are the results of analyses for samples received by the laboratory on 12/15/15 16:10.

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 accredited 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



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number: Project Location:

ARTESIA, NM

12/15/2015

NONE GIVEN

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #1 (H503263-01)

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	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	<0.050	0.050	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	<0.300	0.300	12/16/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	6 73.6-14	0						
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	12/16/2015	ND	432	108	400	0.00	
TPH 801.5M	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	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	56.6	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	91.9 9	6 35-147							
Surrogate: 1-Chlorooctadecane	96.19	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celeg Liteens



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #2 (H503263-02)

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	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	<0.050	0.050	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	<0.300	0.300	12/16/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	73.6-14	0					,	
Chloride, SM4500CI-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	12/17/2015	ND	400	100	400	3.92	
TPH 801.5M	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	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	45.6	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	89.9 %	6 35-147				THE RESERVE THE PARTY SERVED AND ADDRESS OF THE PARTY SERVED ADDRESS OF THE PARTY SERVED AND ADDRESS OF THE PARTY SERVED AND A			
Surrogate: 1-Chlorooctadecane	87.5 %	6 28-171							

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*=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported: Project Name:

12/21/2015 ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: #3 (H503263-03)

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	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	<0.050	0.050	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	<0.300	0.300	12/16/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 73.6-14	0				BOOK 4 BOOK 480.00 (200 to 00 4 80 00 10 20 00 10 10 10 10 10 10 10 10 10 10 10 10		
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	12/17/2015	ND	400	100	400	3.92	
TPH 801.5M	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	12/16/2015	ND	194	97.0	200	5.68	•
DRO >C10-C28	<10.0	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	86.1 %	6 35-147	ν.						
Surrogate: 1-Chlorooctadecane	86.2 %	6 28-171							

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Celley L. Keene



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #4 (H503263-04)

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	12/17/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/17/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	<0.050	0.050	12/17/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/17/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	<0.300	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	73.6-14	0	**************************************				***************************************	
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	12/17/2015	ND	400	100	400	3.92	
TPH 801.5M	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	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	383	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	85.3 9	6 35-147							
Surrogate: 1-Chlorooctadecane	96.1 9	6 28-171							

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Celeg & Keene



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name: Project Number:

ABO 16" LATTERAL

Project Location:

NONE GIVEN

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: #5 (H503263-05)

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	12/17/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/17/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	<0.050	0.050	12/17/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/17/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	<0.300	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/17/2015	ND	400	100	400	3.92	
TPH 801.5M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	21.9	10.0	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	6660	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	112 %	6 35-147							
Surrogate: 1-Chlorooctadecane	208 %	6 28-171							

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Celleg Theme



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #6 (H503263-06)

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	12/17/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/17/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	<0.050	0.050	12/17/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/17/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	<0.300	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 73.6-14	0					***************************************	
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	12/17/2015	ND	400	100	400	3.92	
TPH 801.5M	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	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	124	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	86.3	% 35-147			161				

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Celeg D. Freene



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #7 (H503263-07)

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	12/17/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	<0.050	0.050	12/17/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	0.127	0.050	12/17/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	0.801	0.150	12/17/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	0.929	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	121 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/17/2015	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	58.6	50.0	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	4200	50.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	128 %	6 35-147							
Surrogate: 1-Chlorooctadecane	170 %	6 28-171							

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Celleg Thene



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: #8 (H503263-08)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	12/17/2015	ND	1.95	97.5	2.00	0.179	-
Toluene*	0.168	0.050	12/17/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	0.112	0.050	12/17/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	<0.150	0.150	12/17/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	0.332	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/17/2015	ND	400	100	400	3.92	•
TPH 801.5M	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	12/16/2015	ND	194	97.0	200	5.68	-
DRO >C10-C28	576	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	105 %	6 35-147							

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: #9 (H503263-09)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/17/2015	ND	2.09	104	2.00	5.69	-
Toluene*	0.398	0.050	12/17/2015	ND	2.07	104	2.00	6.88	
Ethylbenzene*	0.321	0.050	12/17/2015	ND	2.10	105	2.00	7.92	
Total Xylenes*	1.20	0.150	12/17/2015	ND	6.34	106	6.00	6.97	
Total BTEX	1.92	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 73.6-14	0				50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/17/2015	ND	400	100	400	3.92	
TPH 801.5M	mg/	kg	Analyze	d By: MS				0.52	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.1	10.0	12/16/2015	ND	194	97.0	200	5.68	2 Janner
DRO >C10-C28	2360	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	101 %	6 35-147							
Surrogate: 1-Chlorooctadecane	135 %	6 28-171							

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Celler D. Keene

Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported: Project Name: 12/21/2015

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #10 (H503263-10)

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	12/17/2015	ND	2.09	104	2.00	5.69	QQ
Toluene*	0.101	0.050	12/17/2015	ND	2.07	104	2.00	6.88	
Ethylbenzene*	0.217	0.050	12/17/2015	ND	2.10	105	2.00	7.92	
Total Xylenes*	1.16	0.150	12/17/2015	ND	6.34	106	6.00	6.97	
Total BTEX	1.47	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/17/2015	ND	400	100	400	3.92	Qualitics.
TPH 8015M	mg/l	kg	Analyze	d By: MS			.00	3.32	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
GRO C6-C10	<200	200	12/17/2015	ND	194	97.0	200	5.68	Quante.
DRO >C10-C28	10800	200	12/17/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	140 %	35-147							
Surrogate: 1-Chlorooctadecane	285 %								

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Celeg D. Keene

Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name: Project Number:

ABO 16" LATTERAL NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #11 (H503263-11)

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	12/17/2015	ND	2.09	104	2.00	5.69	C
Toluene*	<0.050	0.050	12/17/2015	ND	2.07	104	2.00	6.88	
Ethylbenzene*	<0.050	0.050	12/17/2015	ND	2.10	105	2.00	7.92	
Total Xylenes*	<0.150	0.150	12/17/2015	ND	6.34	106	6.00	6.97	
Total BTEX	<0.300	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2015	ND	400	100	400	3.92	Q -1 Q
TPH 801.5M	mg/l	кg	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	12/16/2015	ND	194	97.0	200	5.68	Q
DRO >C10-C28	28.2	10.0	12/16/2015	ND	183	91.7	200	4.78	
Surrogate: 1-Chlorooctane	90.3 %	6 35-147		TENT 187 4 18 (A)					
Surrogate: 1-Chlorooctadecane	93.4 %	<i>28-171</i>							

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Clay to traine

Analytical Results For:

FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To:

(575) 676-2401

Received:

12/15/2015

Reported:

12/21/2015

Project Name:

ABO 16" LATTERAL

Project Number:

NONE GIVEN

Project Location:

ARTESIA, NM

Sampling Date:

12/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: #12 (H503263-12)

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	12/17/2015	ND	2.09	104	2.00	5.69	
Toluene*	<0.050	0.050	12/17/2015	ND	2.07	104	2.00	6.88	
Ethylbenzene*	<0.050	0.050	12/17/2015	ND	2.10	105	2.00	7.92	
Total Xylenes*	<0.150	0.150	12/17/2015	ND	6.34	106	6.00	6.97	
Total BTEX	<0.300	0.300	12/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 73.6-14	0						***************************************
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/17/2015	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	12/16/2015	ND	194	97.0	200	5.68	
DRO >C10-C28	337	10.0	12/16/2015	ND	183	91.7	200	4.78	
C 1 Cl1									
Surrogate: 1-Chlorooctane	85.99	% 35-147							

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Celeg D. Freene



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 SM4S00Cl-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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Cellery L. Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
Marland, Hobbs 2326 FAX (575)	88240	.2476
Marland, Hobbs 2326 FAX (575)	S	393.
101	Marian	FAX (575)
	101	(57)

company Nan	Company Name: From N's Titled Services	(Alla Energy)	BIL	BILL TO		ANALYSIS REQUEST	
Project Manager:	jer:		P.O. #:	oposticje bitvopata perceperenda escribinska konstruktura de kanada de		12	1
Address:			Company:				SERVICE SECURITION
City: Molgames	State: N M	, Zip:	Attn:				
Phone #: 5>	Phone #: 535 573 4922 Fax #:		Address:	1			CONTRACTOR .
Project #:	Project Owner:	er:	City:	E			Visioneto
Project Name:	Project Name: 1960 11" La Here 1			Zip:			www.ppcy
Project Location	Project Location: H. fisia Non		Phone #:		-		
Sampler Name:	11 Hule Pinhor		Fax #:				DESCRIPTION OF
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING			NEWS TO
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he weeken 1 O aka energy com ☐ Yes ☐ No Add'I Phone #: (mo. 1 76561 ts Phone Result: Fax Result: REMARKS: CHECKED'BY: Sample Condition
Cool Intact
Yes Pres 1.60 12 · 5 · 9 Time: 12 · 10 Date: Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Footes Field Secure CAPA	(4/ha Esong)	BILL TO			ANALYSIS REQUEST
		P.O. #:			
Address:		Company:			
City: Malyamore State: N.M. Zip:	A Zip:	Attn:			
Phone #: 573 5/3 657C Fax#:		Address:	\		
Project #: Project Owner:	ner:	City:			
Project Name: 1466 16" Lather!		State: Zip:			
Project Location: M. L. S. L. N. W.		Phone #:			
Sampler Name: And Sun And		Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	ING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS WASTEWATER SOIL SOIL	ACID/BASE: OTHER: OTHER: DATE	TIME	\$7.52 BTEE Ch lerides	
1 # 1			13:46	4	
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PLEASE NOTE: Labity and Damages. Cardinal's labity and clerits exclusive remedy for any claim analyses. All claims including those for negligence and any other clause whatsceres that be deemed service. In no evert that Damages including without any service. In one evert all and cardinal and the part of the clause of the respect of the clause of the services are not any other than the clause of the clause	for any claim arising whether based in contract or tort be deemed waved unless made in writing and recev- ding without limitation, business interruptions, loss of	Page 640	f by the client for the completion of the application of the application of the application.	appe	
1	Re	s based upon any of the above stated real	Phone Result: Fax Result: REMARKS:	□ Yes □ N	No Add'l Phone #: No Add'l Fax #:
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition	on CHECKED EY:		hever	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-9326