

Sampling

Analytical Report- H301175	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Valve Box #1 East	5/16/2013	1	<0.300	ND	16	16	32
Valve Box West #1	5/16/2013	1	<0.300	ND	ND	ND	160
Lease Road #1	5/16/2013	1	<0.300	ND	492	492	464
Spill Center #1	5/16/2013	1	<0.300	ND	2020	2020	656
Drip Tank base #1	5/16/2013	1	<0.300	ND	11.9	11.9	ND
Valve Box Center#1	5/16/2013	1	<0.300	ND	31.5	31.5	160

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Site Ranking is (0). Depth to Ground Water >100' (approx. 336', per NMOSE).

All results are ppm.Chlorides for documentation.

Released: Unknown; Recovered: 30bbl . Discovery Date: 3/18/2013



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 03959			ED	2	4	12	19S	24E		543589	3615225*	545	265	280
RA 03960			ED	2	2	10	19S	24E		540341	3616025*	440	335	105
RA 04245			ED	4	4	35	19S	24E		542005	3608363*	300		
RA 04727			ED	1	2	26	19S	24E		541594	3611184*	354	322	32
RA 05576			ED	1	4	21	19S	24E		538353	3611992*	320	307	13
RA 05676			ED	2	2	3	28	19S	24E	538058	3610471*	600	558	42
RA 05723			ED	3	3	34	19S	24E		539170	3608353*	310	270	40
RA 06436			ED	3	1	4	12	19S	24E	543083	3615122*		300	
RA 06777			ED	4	1	1	07	19S	24E	534378	3615864*	800		

Average Depth to Water: **336 feet**

Minimum Depth: **265 feet**

Maximum Depth: **558 feet**

Record Count: 9

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 1-36

Township: 19S

Range: 24E

*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.

May 24, 2013

AUSTIN WEYANT
AGAVE ENERGY COMPANY
105 S. 4TH STREET
ARTESIA, NM 88210

RE: DAGGER 6"

Enclosed are the results of analyses for samples received by the laboratory on 05/16/13 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

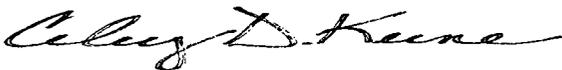
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 AGAVE ENERGY COMPANY
 AUSTIN WEYANT
 105 S. 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4275

 Received: 05/16/2013
 Reported: 05/24/2013
 Project Name: DAGGER 6"
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/14/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: VBE #1 (H301175-01)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/24/2013	ND	2.28	114	2.00	3.54		
Toluene*	<0.050	0.050	05/24/2013	ND	2.05	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	05/24/2013	ND	2.22	111	2.00	2.97		
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.42	107	6.00	2.81		
Total BTEX	<0.300	0.300	05/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2013	ND	432	108	400	3.77		

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	05/16/2013	ND	214	107	200	3.92		
DRO >C10-C28	16.0	10.0	05/16/2013	ND	212	106	200	5.93		

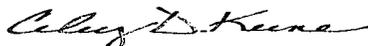
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 AGAVE ENERGY COMPANY
 AUSTIN WEYANT
 105 S. 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4275

Received:	05/16/2013	Sampling Date:	05/14/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	DAGGER 6"	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VBW #1 (H301175-02)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54		
Toluene*	<0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97		
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81		
Total BTEX	<0.300	0.300	05/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/17/2013	ND	432	108	400	3.77		

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	05/16/2013	ND	214	107	200	3.92		
DRO >C10-C28	<10.0	10.0	05/16/2013	ND	212	106	200	5.93		

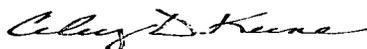
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 AGAVE ENERGY COMPANY
 AUSTIN WEYANT
 105 S. 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4275

 Received: 05/16/2013
 Reported: 05/24/2013
 Project Name: DAGGER 6"
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/14/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ROAD E #1 (H301175-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/24/2013	ND	2.28	114	2.00	3.54		
Toluene*	<0.050	0.050	05/24/2013	ND	2.05	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	05/24/2013	ND	2.22	111	2.00	2.97		
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.42	107	6.00	2.81		
Total BTEX	<0.300	0.300	05/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/17/2013	ND	432	108	400	3.77		

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	05/16/2013	ND	214	107	200	3.92		
DRO >C10-C28	492	10.0	05/16/2013	ND	212	106	200	5.93		

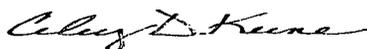
Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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* = Accredited Analyte

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 AUSTIN WEYANT
 105 S. 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4275

 Received: 05/16/2013
 Reported: 05/24/2013
 Project Name: DAGGER 6"
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/14/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SPILL #1 (H301175-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/24/2013	ND	2.28	114	2.00	3.54		
Toluene*	<0.050	0.050	05/24/2013	ND	2.05	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	05/24/2013	ND	2.22	111	2.00	2.97		
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.42	107	6.00	2.81		
Total BTEX	<0.300	0.300	05/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	05/17/2013	ND	432	108	400	3.77		

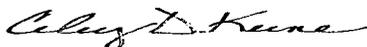
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/16/2013	ND	214	107	200	3.92		
DRO >C10-C28	2020	10.0	05/16/2013	ND	212	106	200	5.93		

Surrogate: 1-Chlorooctane 99.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 138 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 105 S. 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4275

 Received: 05/16/2013
 Reported: 05/24/2013
 Project Name: DAGGER 6"
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/14/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TANK BASE #1 (H301175-05)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54		
Toluene*	<0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97		
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81		
Total BTEX	<0.300	0.300	05/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/17/2013	ND	432	108	400	3.77		

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	05/16/2013	ND	214	107	200	3.92		
DRO >C10-C28	11.9	10.0	05/16/2013	ND	212	106	200	5.93		

Surrogate: 1-Chlorooctane 95.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.4 % 63.6-154

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Analytical Results For:

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 AUSTIN WEYANT
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 ARTESIA NM, 88210
 Fax To: (575) 748-4275

 Received: 05/16/2013
 Reported: 05/24/2013
 Project Name: DAGGER 6"
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/14/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: VBC #1 (H301175-06)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/24/2013	ND	2.28	114	2.00	3.54		
Toluene*	<0.050	0.050	05/24/2013	ND	2.05	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	05/24/2013	ND	2.22	111	2.00	2.97		
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.42	107	6.00	2.81		
Total BTEX	<0.300	0.300	05/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/17/2013	ND	432	108	400	3.77		

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	05/16/2013	ND	214	107	200	3.92		
DRO >C10-C28	31.5	10.0	05/16/2013	ND	212	106	200	5.93		

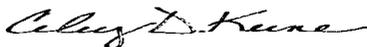
Surrogate: 1-Chlorooctane 89.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

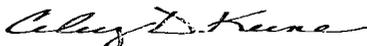
Notes and Definitions

- 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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

