



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

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October 18, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VEGA 9 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/17/17 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://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:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-1 (H702803-01)**

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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/17/2017	ND	416	104	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	10/17/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	73.6	10.0	10/17/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 86.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.1 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 10/17/2017  
 Reported: 10/18/2017  
 Project Name: VEGA 9 FED #2  
 Project Number: 701162.086.01  
 Project Location: EDDY COUNTY

 Sampling Date: 10/13/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SS-2 (H702803-02)**

BTX 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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/17/2017	ND	416	104	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	17.8	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 88.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.3 % 34.7-157

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Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-3 (H702803-03)**

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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEx	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/17/2017	ND	416	104	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 81.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.5 % 34.7-157

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Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-4 (H702803-04)**

BTX 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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/17/2017	ND	416	104	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	206	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 74.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

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Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-5 (H702803-05)**

BTX 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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/17/2017	ND	416	104	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	472	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 80.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Fax To: (575) 745-8905

Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-6 (H702803-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEx	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/17/2017	ND	416	104	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	138	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 85.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-7 (H702803-07)**

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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEx	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/17/2017	ND	448	112	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	271	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 83.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.5 % 34.7-157

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Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-8 (H702803-08)**

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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEx	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/17/2017	ND	448	112	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	355	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 81.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Fax To: (575) 745-8905

Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-9 (H702803-09)**

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	10/17/2017	ND	1.90	94.9	2.00	1.59		
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87		
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234		
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359		
Total BTEX	<0.300	0.300	10/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/17/2017	ND	448	112	400	0.00	

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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	1330	50.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 384 % 28.3-164

Surrogate: 1-Chlorooctadecane 458 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 10/17/2017  
Reported: 10/18/2017  
Project Name: VEGA 9 FED #2  
Project Number: 701162.086.01  
Project Location: EDDY COUNTY

Sampling Date: 10/13/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SS-10 (H702803-10)**

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	10/17/2017	ND	1.90	94.9	2.00	1.59		
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87		
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234		
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359		
Total BTEx	<0.300	0.300	10/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/17/2017	ND	448	112	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	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	384	10.0	10/18/2017	ND	208	104	200	0.307	

Surrogate: 1-Chlorooctane 90.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 112 % 34.7-157

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\*=Accredited Analyte

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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

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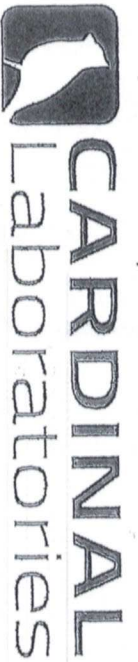
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: David Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701162, O&G, D1

Project Name: Vesp 9 2nd #2

Project Location: Eddy City

Sampler Name: Kim Wilson

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

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Lab I.D.

Sample I.D.

H702803

1 SS-1

2 SS-2

3 SS-3

4 SS-4

5 SS-5

6 SS-6

7 SS-7

8 SS-8

9 SS-9

10 SS-10

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

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