

RECEIVED

By JKeyes at 9:33 am, Jul 07, 2016

Conditionally
APPROVED

Confirmation bottom and sidewall samples must be provided
in the closure report.



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Remediation Work Plan

**Alpha Crude Connector, LLC: Lynch Station
|1RP-4313|**

June 30, 2016

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Alpha Crude Connector, LLC

Mr. Jamie Keyes
NMOCD District 1
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Work Plan**
Alpha Crude Connector, LLC
Holly Station *1RP-4313*

Dear Mr. Keyes,

Alpha Crude Connector (ACC) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The ACC Lynch Station is located approximately thirty-one (31) miles southwest of Hobbs, New Mexico. The legal location for this facility is Unit Letter B, Section 1, Township 21 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude are 32.52175 North and -103.52468 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Kimbrough gravelly loam with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 112-feet below ground surface (BGS). Therefore the ranking for this site is a **0** based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On June 15, 2016 a temporary tank overflowed resulting in the loss of approximately 15bbls of crude oil. The oil flowed from the tank off of the pad and into the adjacent pasture for approximately 266-feet. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a backhoe. Due to the shallow caliche in this area, refusal was encountered at depths ranging from 1.5 to 5-feet BGS. The laboratory results from the soil sampling event are summarized in the table below.

Laboratory Results

See [Appendix IV](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	360	176	4870	35900
S-1	1	ND	--	ND	13.8
S-1 REFUSAL	2	ND	--	ND	14.7
S-2	0	1240	48	16200	59000
S-2	1	1680	--	15200	20800
S-2 REFUSAL	2	4.05	--	10.3	71.6
S-3	0	637	ND	7630	41700
S-3	1	1730	--	17300	28800
S-3 REFUSAL	1.5	4.79	--	10.3	30.8
S-4	0	11.1	ND	392	2780
S-4	1	927	--	9700	12800
S-4	2	471	--	6370	9950
S-4	3	0.308	--	ND	ND
S-4	4	ND	--	ND	ND
S-4 REFUSAL	5	3.14	--	12.4	79.3

(--) Analyte Not Tested

(ND) Analyte Not Detected

Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 2-feet BGS.
- The impacted area in the vicinity of sample location S-3 will be excavated to a depth of 1.5-feet BGS.
- The impacted area in the vicinity of sample location S-4 will be excavated to a depth of 3-feet BGS.
- All of the excavated material will be hauled to a NMOCD approved solid waste disposal facility.
- The excavated area on the pad will be backfilled with caliche. The excavated area in the pasture will be backfilled with top soil and contoured to match the surrounding terrain.

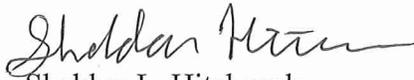
Revegetation Plan

- The area in the pasture will be backfilled with loamy top soil and contoured to match the surrounding terrain and left in a “rough” condition to approximate natural surface deviations, control erosion, and promote revegetation.
- New Mexico State Land Office (NMSLO) shallow (SH) seed mixture will be planted utilizing a seed drill at a rate of 13 PLS/acre.
- The site will be periodically monitored for revegetation to insure that revegetation matching or exceeding natural potential plant cover and diversity levels is achieved.
- The site will be monitored for noxious weeds development specifically African Rue.
- Should noxious weed issues occur or revegetation is slow to occur (accounting for precipitation levels) NMSLO will be consulted on the best course of action to reconcile the issue.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE



Sheldon L. Hitchcock
Project Manager



David J. Adkins
District Manager

Attachments

- Appendix I Site Plan
- Appendix II Groundwater Data
- Appendix III Initial C-141
- Appendix IV Laboratory Results

APPENDIX I
SITE PLAN



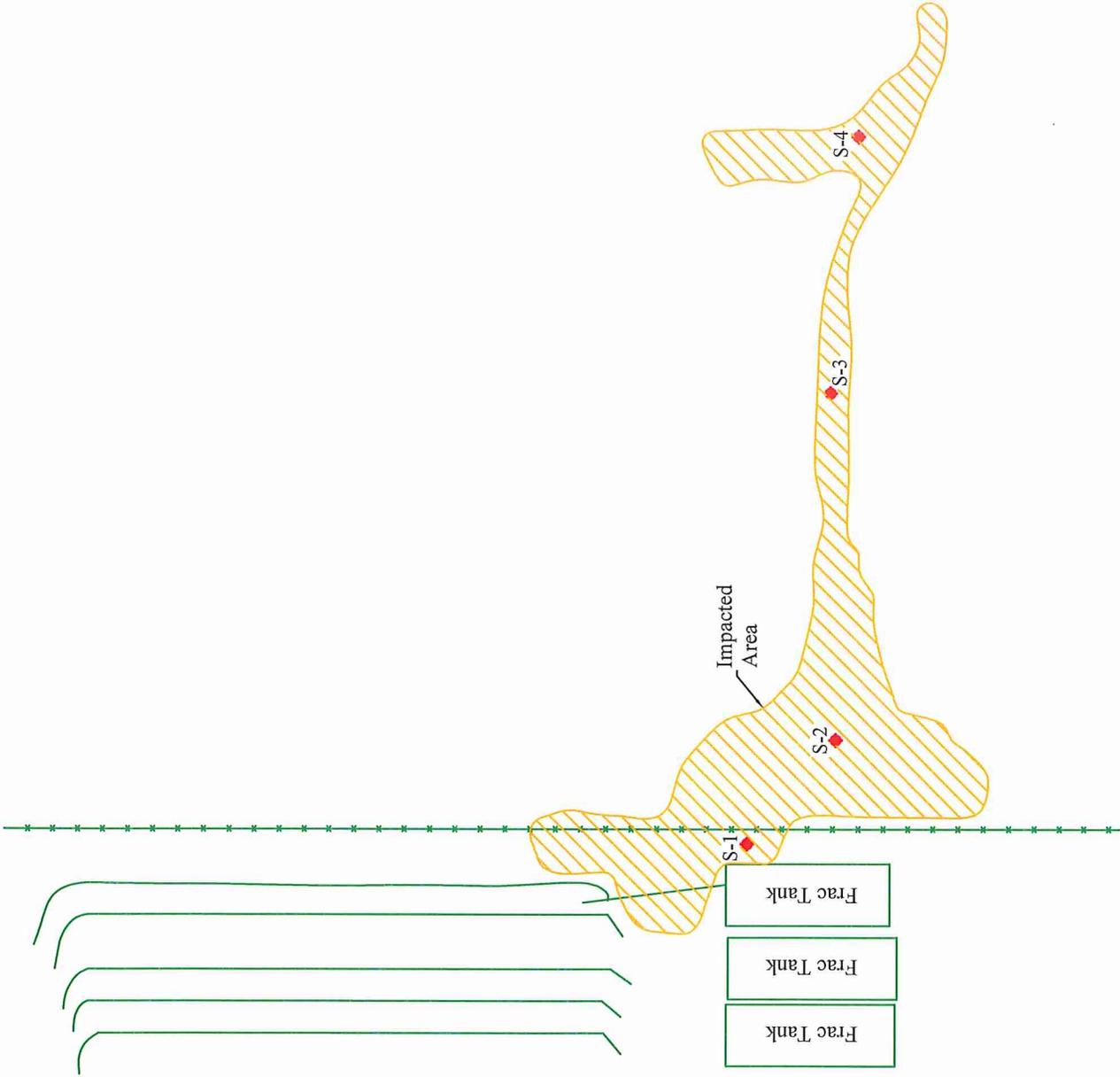
NTS



Scale in Feet

Legend

- Sample Location
- Fence Line



Date: 06/27/2016

Scale: NTS

Drawn By: TJS

Lynch Station
Alpha Crude Connector, LLC
Lea County, New Mexico
Figure 1 - Site Plan

APPENDIX II
GROUNDWATER DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(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	Distance	Depth Well	Depth Water	Water Column
CP 00611			LE	2	1	06	21S	34E		639838	3598306*	1190	118	112	6
CP 00579			LE	2	2	02	21S	33E		637438	3598269*	1210	125	100	25
CP 00796			LE	2	2	4	02	21S	33E	637548	3597564*	1316	102		
CP 00803			LE	3	2	2	02	21S	33E	637337	3598168*	1316	1100		
CP 00804			LE	3	2	2	02	21S	33E	637337	3598168*	1316	170		
CP 01316 POD1			LE	3	2	4	02	21S	33E	637432	3597709	1346	1364	1046	318
CP 00797			LE	1	2	4	02	21S	33E	637348	3597564*	1487	110		

Average Depth to Water: **419 feet**

Minimum Depth: **100 feet**

Maximum Depth: **1046 feet**

Record Count: 7

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 638648

Northing (Y): 3598287

Radius: 1500

*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.

APPENDIX III
INITIAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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

RECEIVED
By JKeyes at 10:16 am, Jun 20, 2016

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Alpha Crude Connector, LLC	Contact: George Grau
Address: 4200 E Skelly Dr. Ste 400 Tulsa, OK 74135	Telephone No. 817-312-3792
Facility Name: Lynch Station	Facility Type: Pipeline

Surface Owner: State	Mineral Owner:	API No.
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LOCATION OF RELEASE

Unit Letter B	Section 1	Township 21S	Range 33E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32.52175 Longitude -103.52468

NATURE OF RELEASE

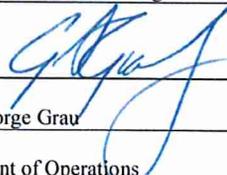
Type of Release: Crude Oil	Volume of Release: 15bbls	Volume Recovered: 5bbls
Source of Release: Tank overflow	Date and Hour of Occurrence: 6/15/16 8:00pm	Date and Hour of Discovery: 6/15/16 8:00pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A temporary tank overflowed resulting in the loss of approximately 15bbls of crude oil. Upon discovery a vacuum truck was immediately dispatched to the site to recover standing fluid. Approximately 5bbls of fluid were recovered.

Describe Area Affected and Cleanup Action Taken.*
The affected area originated on the pad and flowed east across the pad and into the adjacent pasture. The area was marked for a one-call and soil samples will be collected in preparation for drafting a remediation work plan.

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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: George Grau	Approved by Environmental Specialist: 	
Title: Vice President of Operations	Approval Date: 06/20/2016	Expiration Date: 08/20/2016
E-mail Address: ggrau@frontierenergyllc.com	Conditions of Approval: <u>Discrete samples only. Delineate and remediate per NMOCD guidelines.</u>	Attached <input type="checkbox"/> IRP 4313
Date: 6/17/2016 Phone: 817-312-3792		

* Attach Additional Sheets If Necessary

nJXK1617236605
pJXK1617236766

APPENDIX IV
LABORATORY RESULTS

June 28, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LYNCH STATION

Enclosed are the results of analyses for samples received by the laboratory on 06/22/16 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 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
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-1 0' (H601357-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	27.0	2.00	06/24/2016	ND	2.07	103	2.00	1.69		
Toluene*	128	2.00	06/24/2016	ND	1.90	95.1	2.00	1.05		
Ethylbenzene*	46.0	2.00	06/24/2016	ND	1.69	84.4	2.00	0.488		
Total Xylenes*	159	6.00	06/24/2016	ND	5.26	87.6	6.00	0.422		
Total BTEX	360	12.0	06/24/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/22/2016	ND	400	100	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	4870	100	06/23/2016	ND	202	101	200	0.642			
DRO >C10-C28	35900	100	06/23/2016	ND	213	107	200	0.0404			

Surrogate: 1-Chlorooctane 235 % 35-147
Surrogate: 1-Chlorooctadecane 1150 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780,-103.524648		

Sample ID: S-1 1' (H601357-02)

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	06/24/2016	ND	2.07	103	2.00	1.69		
Toluene*	0.063	0.050	06/24/2016	ND	1.90	95.1	2.00	1.05		
Ethylbenzene*	<0.050	0.050	06/24/2016	ND	1.69	84.4	2.00	0.488		
Total Xylenes*	<0.150	0.150	06/24/2016	ND	5.26	87.6	6.00	0.422		
Total BTEX	<0.300	0.300	06/24/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

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	06/23/2016	ND	202	101	200	0.642		
DRO >C10-C28	13.8	10.0	06/23/2016	ND	213	107	200	0.0404		

Surrogate: 1-Chlorooctane 87.9 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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* = Accredited Analyte

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-1 2' REFUSAL (H601357-03)

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	06/24/2016	ND	2.07	103	2.00	1.69		
Toluene*	<0.050	0.050	06/24/2016	ND	1.90	95.1	2.00	1.05		
Ethylbenzene*	<0.050	0.050	06/24/2016	ND	1.69	84.4	2.00	0.488		
Total Xylenes*	<0.150	0.150	06/24/2016	ND	5.26	87.6	6.00	0.422		
Total BTEX	<0.300	0.300	06/24/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

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	06/23/2016	ND	202	101	200	0.642		
DRO >C10-C28	14.7	10.0	06/23/2016	ND	213	107	200	0.0404		

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 97.8 % 28-171

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*=Accredited Analyte

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-2 0' (H601357-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	127	10.0	06/24/2016	ND	2.07	103	2.00	1.69		
Toluene*	516	10.0	06/24/2016	ND	1.90	95.1	2.00	1.05		
Ethylbenzene*	143	10.0	06/24/2016	ND	1.69	84.4	2.00	0.488		
Total Xylenes*	454	30.0	06/24/2016	ND	5.26	87.6	6.00	0.422		
Total BTEX	1240	60.0	06/24/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 73.6-140

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	06/22/2016	ND	400	100	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	16200	500	06/23/2016	ND	202	101	200	0.642			
DRO >C10-C28	59000	500	06/23/2016	ND	213	107	200	0.0404			

Surrogate: 1-Chlorooctane 2230 % 35-147

Surrogate: 1-Chlorooctadecane 2320 % 28-171

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-2 1' (H601357-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	261	10.0	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	707	10.0	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	180	10.0	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	535	30.0	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	1680	60.0	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

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	15200	100	06/23/2016	ND	202	101	200	0.642			
DRO >C10-C28	20800	100	06/23/2016	ND	213	107	200	0.0404			

Surrogate: 1-Chlorooctane 312 % 35-147

Surrogate: 1-Chlorooctadecane 520 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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 SHELDON HITCHCOCK
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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-2 2' REFUSAL (H601357-06)

BTEX 8021B	mg/kg	Analyzed By: MS					QM-4X			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.139	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	1.03	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	0.645	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	2.23	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	4.05	0.300	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

TPH 8015M	mg/kg	Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	10.3	10.0	06/23/2016	ND	202	101	200	0.642		
DRO >C10-C28	71.6	10.0	06/23/2016	ND	213	107	200	0.0404		

Surrogate: 1-Chlorooctane 88.1 % 35-147

Surrogate: 1-Chlorooctadecane 82.0 % 28-171

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Analytical Results For:

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

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-3 0' (H601357-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	33.5	5.00	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	196	5.00	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	93.6	5.00	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	314	15.0	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	637	30.0	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/22/2016	ND	400	100	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	7630	100	06/23/2016	ND	202	101	200	0.642			
DRO >C10-C28	41700	100	06/23/2016	ND	213	107	200	0.0404			

Surrogate: 1-Chlorooctane 359 % 35-147

Surrogate: 1-Chlorooctadecane 1240 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-3 1' (H601357-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	222	10.0	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	700	10.0	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	200	10.0	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	604	30.0	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	1730	60.0	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

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	17300	100	06/23/2016	ND	202	101	200	0.642			
DRO >C10-C28	28800	100	06/23/2016	ND	213	107	200	0.0404			

Surrogate: 1-Chlorooctane 418 % 35-147

Surrogate: 1-Chlorooctadecane 718 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-3 1.5' REFUSAL (H601357-09)

BTEX 8021B	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.276	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	1.44	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	0.703	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	2.31	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	4.73	0.300	06/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.3	10.0	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	30.8	10.0	06/23/2016	ND	213	107	200	0.0404	

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 76.9 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-4 0' (H601357-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	1.71	0.200	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	1.92	0.200	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	7.32	0.600	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	11.1	1.20	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/22/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	392	10.0	06/23/2016	ND	219	110	200	1.46			
DRO >C10-C28	2780	10.0	06/23/2016	ND	225	113	200	1.77			

Surrogate: 1-Chlorooctane 152 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-4 1' (H601357-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	106	5.00	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	382	5.00	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	107	5.00	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	332	15.0	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	927	30.0	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	9700	50.0	06/23/2016	ND	219	110	200	1.46			
DRO >C10-C28	12800	50.0	06/23/2016	ND	225	113	200	1.77			

Surrogate: 1-Chlorooctane 709 % 35-147

Surrogate: 1-Chlorooctadecane 223 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-4 2' (H601357-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	44.3	5.00	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	180	5.00	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	58.9	5.00	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	188	15.0	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	471	30.0	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.6-140

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	6370	50.0	06/23/2016	ND	219	110	200	1.46			
DRO >C10-C28	9950	50.0	06/23/2016	ND	225	113	200	1.77			

Surrogate: 1-Chlorooctane 512 % 35-147

Surrogate: 1-Chlorooctadecane 219 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-4 3' (H601357-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.106	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	0.202	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	<0.150	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	0.308	0.300	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 73.6-140

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	06/23/2016	ND	219	110	200	1.46		
DRO >C10-C28	<10.0	10.0	06/23/2016	ND	225	113	200	1.77		

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 97.4 % 28-171

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 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780,-103.524648		

Sample ID: S-4 4' (H601357-14)

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	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	<0.050	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	<0.050	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	<0.150	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	<0.300	0.300	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

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	06/23/2016	ND	189	94.5	200	7.04		
DRO >C10-C28	<10.0	10.0	06/23/2016	ND	185	92.4	200	8.20		

Surrogate: 1-Chlorooctane 95.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

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 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780.-103.524648		

Sample ID: S-4 5' REFUSAL (H601357-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.135	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960		
Toluene*	0.930	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23		
Ethylbenzene*	0.465	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29		
Total Xylenes*	1.61	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25		
Total BTEX	3.14	0.300	06/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.7 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	12.4	10.0	06/23/2016	ND	189	94.5	200	7.04		
DRO >C10-C28	79.3	10.0	06/23/2016	ND	185	92.4	200	8.20		

Surrogate: 1-Chlorooctane 89.3 % 35-147

Surrogate: 1-Chlorooctadecane 97.7 % 28-171

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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.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:	
Project Manager: S. Fitzpatrick		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia	State: NM zip: 88210	Address:	
Phone #: 575-746-8768	Fax #: 575-746-8905	City:	
Project #: 702034/004/01	Project Owner: All	State: Zip:	
Project Name: Lynch Station	Project Location: 32.521789, -103.524664	Phone #:	
Sampler Name: S. Fitzpatrick		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H601357-												
01	5-10'	G	1						6/29/06	9:00	✓	TPH
02	5-11'	G	1							9:02	✓	BTEX
03	5-12' REVEAL	G	1							9:04	✓	Chlorides
04	5-20'	G	1							9:50	✓	
05	5-21'	G	1							9:52	✓	
06	5-22' REVEAL	G	1							9:54	✓	
07	5-30'	G	1							10:30	✓	
08	5-31'	G	1							10:32	✓	
09	5-31.5' REVEAL	G	1							10:34	✓	
10	5-40'	G	1							11:00	✓	

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Relinquished By: Sheldon Price Date: 6/29/06 Received By: [Signature] Date: 6/29/06

Delivered By: (Circle One) C.10c Sample Condition: Intact Yes No

Sampler - UPS - Bus - Other: C.10c CHECKED BY: [Signature] (Initials) C.10c

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

REMARKS:

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

VG 10P2

