

July 07, 2014

EMMANUEL LUJAN

PANTHER ENERGY

101 E. PANTHER

JAL, NM 88252

RE: TRUNK 'M' 20' LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/01/14 12:50.

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/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:**

PANTHER ENERGY  
EMMANUEL LUJAN  
101 E. PANTHER  
JAL NM, 88252  
Fax To: (575) 395-2162

Received: 07/01/2014  
Reported: 07/07/2014  
Project Name: TRUNK 'M' 20' LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 M4 - 2' (H401987-01)**

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2014	ND	1.83	91.3	2.00	23.7	
Toluene*	<0.050	0.050	07/03/2014	ND	1.60	79.9	2.00	24.4	
Ethylbenzene*	<0.050	0.050	07/03/2014	ND	1.50	74.9	2.00	23.3	
Total Xylenes*	<0.150	0.150	07/03/2014	ND	4.68	78.0	6.00	25.1	
Total BTEX	<0.300	0.300	07/03/2014	ND					

Surrogate: Dibromofluoromethane 99.7 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.3 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/03/2014	ND	400	100	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 07/02/2014 ND 178 88.9 200 0.368

DRO >C10-C28 <10.0 10.0 07/02/2014 ND 188 93.9 200 1.88

EXT DRO >C28-C35 <10.0 10.0 07/02/2014 ND

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

PANTHER ENERGY  
EMMANUEL LUJAN  
101 E. PANTHER  
JAL NM, 88252  
Fax To: (575) 395-2162

Received: 07/01/2014  
Reported: 07/07/2014  
Project Name: TRUNK 'M' 20' LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 M4 - 3' (H401987-02)**

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2014	ND	1.83	91.3	2.00	23.7	
Toluene*	<0.050	0.050	07/03/2014	ND	1.60	79.9	2.00	24.4	
Ethylbenzene*	<0.050	0.050	07/03/2014	ND	1.50	74.9	2.00	23.3	
Total Xylenes*	<0.150	0.150	07/03/2014	ND	4.68	78.0	6.00	25.1	
Total BTX	<0.300	0.300	07/03/2014	ND					

Surrogate: Dibromofluoromethane 99.0 % 61.3-142  
Surrogate: Toluene-d8 103 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 92.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	178	88.9	200	0.368	
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	188	93.9	200	1.88	
EXT DRO >C28-C35	<10.0	10.0	07/02/2014	ND					

Surrogate: 1-Chlorooctane 115 % 65.2-140  
Surrogate: 1-Chlorooctadecane 124 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <i>Parther Energy Services</i> <b>Project Manager:</b> <i>Emanuel Lujan</i> <b>Address:</b> <b>City:</b> <i>Jal</i> <b>State:</b> <i>NM</i> <b>Zip:</b> <i>88252</i> <b>Phone #:</b> <i>575-335-2654</i> <b>Fax #:</b> <i>575-395-2162</i> <b>Project Owner:</b> <i>Legacy</i> <b>Project Name:</b> <i>Truck "M" 20" line</i> <b>Project Location:</b> <b>Sample Name:</b> <i>Emanuel Lujan</i>		<b>Lab I.D.</b> <i>PH01987</i> <b>Sample I.D.</b> <i>SI M4-2</i> <i>SI M4-3</i>		FOR LAB USE ONLY									
<b>P.O. #:</b> <b>Company:</b> <i>Legacy Field Services</i> <b>Attn:</b> <i>Philip Lujan</i> <b>Address:</b> <i>R.O. Box 1226</i> <b>City:</b> <i>Jal</i> <b>State:</b> <i>NM</i> <b>Zip:</b> <i>88252</i> <b>Phone #:</b> <i>325-514-9636</i> <b>Fax #:</b>		<b>Matrix</b> <input checked="" type="checkbox"/> <b>GROUNDWATER</b> <input checked="" type="checkbox"/> <b>WASTEWATER</b> <input checked="" type="checkbox"/> <b>SOIL</b> <input type="checkbox"/> <b>OIL</b> <input type="checkbox"/> <b>SLUDGE</b> <input type="checkbox"/> <b>OTHER:</b> <input type="checkbox"/> <b>ACID/BASE:</b> <input type="checkbox"/> <b>ICE / COOL</b> <input type="checkbox"/> <b>OTHER:</b>		<b>DATE</b> <i>7-14-94</i> <b>TIME</b> <i>9:46</i>									
<b>ANALYSIS REQUEST</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>BTEX</b>  <b>TPH</b>  <b>Chlorides</b> </div>		<b>PRESEV</b> <b>SAMPLING</b>											

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<b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> <i>7/14/94</i> <b>Time:</b> <i>12:50</i>		<b>Received By:</b> <i>[Signature]</i> <b>Date:</b> <i>7/14/94</i> <b>Time:</b> <i>2:22</i>		<b>Delivered By: (Circle One)</b> <input checked="" type="checkbox"/> <b>Sample Condition</b> <input type="checkbox"/> <b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>		<b>Checked By:</b> <i>[Signature]</i> <b>(Initials)</b> <b>Sample Condition</b> <input type="checkbox"/> <b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>	
<b>Relinquished By:</b> <b>Date:</b> <b>Time:</b>		<b>Received By:</b> <b>Date:</b> <b>Time:</b>		<b>Delivered By: (Circle One)</b> <input type="checkbox"/> <b>Sample Condition</b> <input type="checkbox"/> <b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>		<b>Checked By:</b> <b>(Initials)</b> <b>Sample Condition</b> <input type="checkbox"/> <b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>	

**REMARKS:**  
*Email Results to: Emanuel @ partherenergy.net*  
*philip.lujan @ regencygas.com*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54































