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ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

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APR 0 9 2012

April 5, 2011

Mr. Geoffrey Leking NMOCD District 1 1625 N. French Dr. Hobbs, NM 88240

Subject:

AMENDED Soil Assessment and Remediation Work Plan Centurion Pipeline, L.P. Brahaney Gathering System 8" Line LMEP #308-11-027

Dear Mr. Leking,

Centurion Pipeline, L.P. (Centurion) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the referenced Brahaney Gathering System 8-inch Line release. Talon's site assessment, soil sampling results and proposed work plan to perform remediation activities consist of the following:

Incident Date

September 25, 2011

Background Information

The Brahaney Gathering System 8-inch Line is located approximately four (4) miles southeast of Bronco, New Mexico. The legal location for the site is Section 4, Township 13 South and Range 38 East in Lea County, New Mexico. More Specifically the latitude and longitude for the release are 33 12.847' North and 103 06.603' West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Amarillo loamy fine sand, with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands which includes silty soils under lain by sedimentary rock and hard caliches. Drainage courses in this area are normally dry. A groundwater monitoring well is located approximately 500' to the south away. Groundwater was measured at 95' below ground surface in this well.

The ranking for this site is 10 based on the as following:

ILLING	Depth to ground water	50-100'
EMENT	Wellhead Protection Area	>1000'
CTING	Distance to surface water body	>1000'

APR 1 0 2012

Incident Description

On September 25, 2011, internal corrosion of the 8" steel pipeline caused a leak in the Brahaney Gathering System resulting in a release of 4-5 barrels of sweet crude oil. No oil was recovered. The pipeline was immediately shut-in and the pipeline was replaced on September 26, 2011. The impacted soil was excavated and transported to Gandy Landfill on September 28, 2011. The impacted area measured approximately 20-feet long by 8-feet wide over the pipeline right of way.

Sampling Activities

On September 26, 2011 Talon mobilized personnel to begin soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a backhoe. The soil samples labeled S-1 were collected from the excavated stockpile and at 6-feet deep below the exposed pipeline. The soil samples S-2 and S-3 were collected from the stockpile of excavated soil, where indicated on the attached site plan.

Talon subsequently mobilized a drill rig to the site for vertical delineation of the release. On October 14, 2011 boring B-1 was drilled where shown on the attached site plan. Undisturbed, split spoon samples were collected utilizing a hollow stem auger drilling techniques. The boring was terminated when refusal was encountered at 45-feet deep.

On March 9, 2012 Talon personnel returned to the site with an air rotary drill rig to obtain soil samples at greater depths. The boring B-1 was re-drilled and grab soil samples were collected from 5-feet deep to a depth of 95-feet deep below land surface for chloride analysis, pursuant to the requirements of NMOCD.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and Analysis of chlorides was done via Method SM4500CL-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

October 1, 2011

Sample	Depth	BTEX	<u>TPH</u> (mg/kg)
S-1, Stockpile	0' 6'	285.7 411.5	14,900 24,000
S-2	0'	1.067	73
S-3	0'	0.185	58.6

October 18, 2011

<u>Sampl</u>	e, Depth	BTEX	<u>TPH</u> (mg/kg)
B-1	10'	225.56	21,490
	12'	211.72	19,740
	14'	240.94	20,770
	16'	230.27	29,570
	20'	326.02	40,400
	30'	341.47	28,340
	35'	<0.15	138
	38'	<0.15	49.1
	45'	20.56	4,006

March 14, 2012

<u>Sample</u>	, Depth	BTEX	Chlorides	<u>TPH</u> (mg/kg)
B-1	5'		<16	
	10'		<16	
	15'		<16	
	20'		<16	
	25'		<16	
	30'		<16	
	35'		<16	
	40'		<16	
	45'		<16	
	65'	0.48	<16	1364
	70'	< 0.150	<16	182
	75'	< 0.150	<16	92
	80'	< 0.150	16	189
	85'	< 0.150	16	262
	90'	< 0.150	16	604
	95'	< 0.150	16	335

--Analyte Not Tested

Proposed Remedial Actions

- The impacted soil to a depth of 6-feet will be excavated and transported to an NMOCD approved solid waste disposal facility.
- Confirmation samples will be collected from the sidewalls of the excavation and presented to the OCD for permission to complete excavation activities.

- Upon completion of excavation activities, a 20 mil. liner will be placed into the bottom of excavated area. The excavated area will be backfilled back to grade using new material transported from a local borrow pit.
- The backfill material will be contoured to match the surrounding terrain and the area will be seeded with an approved seed mixture for the area.
- A closure report detailing all site activities, analytical data and a final C-141 Form will be provided to the NMOCD.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE M. Wilson

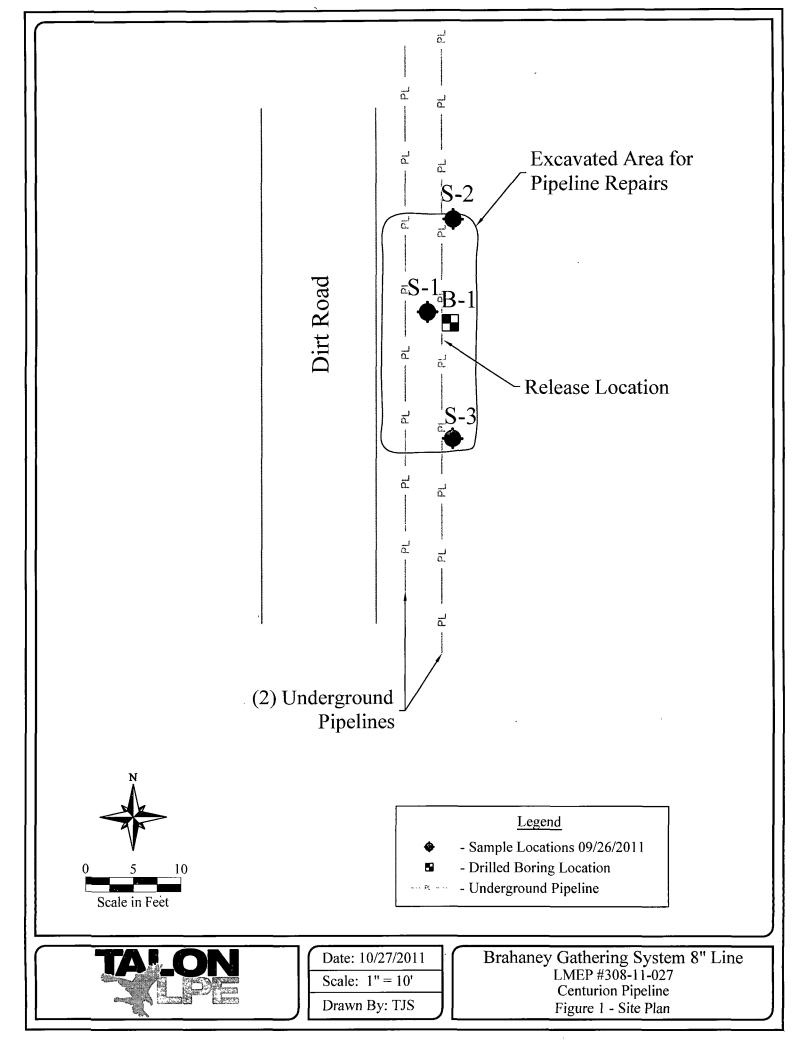
Kimberly McWilson Environment Scientist

David J. Adkins District Manager

SITE MAP

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LABORATORY RESULTS

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March 14, 2012

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: BRAHANEY GS 8" LINE 11-027

Enclosed are the results of analyses for samples received by the laboratory on 03/12/12 13:41.

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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 5' (H200631-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 10' (H200631-02)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92		

Sample ID: B - 1 15' (H200631-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 20' (H200631-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM			<u>. </u>		. <u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 25' (H200631-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 30' (H200631-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 35' (H200631-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 40' (H200631-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

Sample ID: B - 1 45' (H200631-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	ND	400	100	400	3.92	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 65' (H200631-10)

BTEX 8021B	mg,	/kg	Analyze	d By: AP			<u> </u>		S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	0.119	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	0.361	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate 4-Bromofluorobenzene (PIL	140	% 64 4-13	4				<u></u>		
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	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	74.0	10.0	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	1290	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate. 1-Chlorooctane	113	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	102	% 57.6-15	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 70' (H200631-11)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate 4-Bromofluorobenzene (PIL	115 %	64.4-13	4						-
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM		······			· · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	182	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate: 1-Chlorooctane	98 2 9	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	9079	57 6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 75' (H200631-12)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate. 4-Bromofluorobenzene (PIL	108 9	% 64 4-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	92.0	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate · 1-Chlorooctane	96 1	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	915	% 57 6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 80' (H200631-13)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 64.4-13	4				·		
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2012	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	Qualifie
GRO C6-C10	<10.0	10.0	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	189	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate · 1-Chlorooctane	90 0	% 55 5-15	4		•	· · · · · · · · · · · · · · · · · · ·			
Surrogate 1-Chlorooctadecane	928	% 57 6-15	8						

Cardinal Laboratories

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 85' (H200631-14)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate 4-Bromofluorobenzene (PIL	115	% 64 4-13	4	₩# = ,			an anna 1980 - 19		
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	262	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate. 1-Chlorooctane	98 8	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	109	% 57 6-15	8						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 90' (H200631-15)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate 4-Bromofluorobenzene (PIL	113 9	64 4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	604	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate 1-Chlorooctane	106 :	% 55.5-15	4						
Surrogate 1-Chlorooctadecane	111 9	% 57 6-15	8						

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/12/2012	Sampling Date:	03/09/2012
Reported:	03/14/2012	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009	Sample Received By:	Jodi Henson
Project Location:	C-4-13S - 38E		

Sample ID: B - 1 95' (H200631-16)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	
Surrogate. 4-Bromofluorobenzene (PIL	114 9	% 64 4-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	335	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate. 1-Chlorooctane	917	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	102	% 57 6-15	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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 SM4500CI-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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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



404 East Marland Habba NM 00240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4

	(575) 393-2326 FAX (575) 393-247																				·	
Company Name	Talon /LPE							BI	LL TO		5				ANA	LYSIS	S RE	QUES	ŝТ			
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City: Arte		Zip:	882	10		At																
	-746-8768 Fax #: 575-	146	-89	05			dres	s: .														
	1242.007 Project Owner	: Ce	nTo	in	3	' Cil	y:															
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Project Locatio	n: C-4.135-38E					Ph	one #	<i>⊧</i> :			12	ł	1					i 1				
Sampler Name:	A . T A	~				Fa	× #:				\bigtriangledown	1						1				
FOR LAB USE ONLY				MA	RIX		PRES	SERV	. SAMPL	NG	\mathbb{R}	Ĭ						1				
Lab I.D. H 200631	Sample I.D.	(G)RAB OR (C)OMP.	# CON LAINERS	WASTEWATER SOIL	OIL	THER :	ACID/BASE:	ICE / COUL	DATE	TIME	Philon											
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PLEASE NOTE. Liability and Damages Conduct's liability and clent's exclusive remedy for any claim assing whether based in contract or tort, shall be limited to the amount; paid by the clent for the analyses. All claims including those for negligence and any other course whatchever shall be deened wwwerd unless made in writing and received by Carcinal within 30 days after completion of the applicable services. In or event shall Carcinal be table for indehald or consequential damages, including without limitation, baseness Interrophisms, loss of use, or loss of profits Incurred by Carcini, la substalames, and the services of the consequential datages. Including without limitation, baseness Interrophisms, loss of use, or loss of profits Incurred by clarci, its substalames, and the service and the service of the service

affiliates of successors erising out of or r	clated to the period	rmance of services hereunde	r by Cardinal, regardless of whether suc	h claim is based upon any of the above stated reasons or otherwise	
Relinquished By:	<u>.</u>	Date:)	Received By:	Phone Result: C) Yes	-

R	elinquished By; 🥐	Date: 1	Received By:		Phone Result:	LIYes	LINO	Add'l Phone #:	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2

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

Company Name	Talon ILPE, .								BI	LL TO		ļ				AN	ALY	SIS	REG	QUE	ST			
Project Manage	" Destid adkins	/					P.0	. ;#:																
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City: Arte.	state: NM	Zip:	g.	Saic	}	[Aitn	n:																
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	Brahaney GS 8"Lina	11	-11	97	-		Stat	te:		Zip:														
Project Location				<u>.</u>			Pho	ne #:				2												
Sampler Name:	Daird Adkin						Fax	#:																
FOR LAB USE ONLY	Vere made	ΓT	T	M4	TRE			PRESE	RV.	SAMPL	NG	1	<u></u>											
Lab I.D. H200631	Sample I.D.	(G)RAB OR (C)OMP.	# CON LAINERS	GROUNDWATER WASTEWATER SOU	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME	14/1041	RTEX	11011	IFM									
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Relinquished By:	Date: / Received By:	Phone Result:	🗆 Yes	🗆 No	Add'l Phone #:	
	-3/12/2012	Fax Result:	C Yes	🗆 No	Add'l Fax #:	
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Relinquished By:	Date: 3/12/2012 Received By:					
markstudlefield	Time apal Allon				_	
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Sampler - UPS - Bus - Other:	4.5° Cool Intact (Initials) 4.5° Pres Pres (Initials) No No No					
† Cardinal cannot accept ver	bal changes. Please fax written changes to 505-393-2476					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393.0476



October 18, 2011

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: BRAHANEY GS 8" LINE 11-027

Enclosed are the results of analyses for samples received by the laboratory on 10/14/11 11:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Celeg D. Keene

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 10' (H102224-01)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.86	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	39.5	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	38.2	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	143	1.50	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate: 4-Bromofluorobenzene (PIL	208	% 64.4-13	4						
TPH 8015M	mg,	'kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7790	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	13700	100	10/17/2011	ND	158	78.9	200	9.21	
Surrogate 1-Chlorooctane	185	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	92.7	% 57.6-15	8						

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 12' (H102224-02)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.32	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	34.6	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	36.8	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	138	1.50	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate: 4-Bromofluorobenzene (PIL	193 \$	64.4-13	4						
TPH 8015M	mg/	'kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6640	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	13100	100	10/17/2011	ND	158	78.9	200	9.21	
Surrogate, 1-Chlorooctane	177 9	55.5-15	4	-					
Surrogate. 1-Chlorooctadecane	-99.3	% 57.6-15	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 14' (H102224-03)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.94	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	50.5	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	38.5	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	143	1.50	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate. 4-Bromofluorobenzene (PIL	193 9	% 64 4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7670	100	10/17/2011	ND	169	84.6	200	6.36	,
DRO >C10-C28	13100	100	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	183 :	55.5-15	4						
Sun rogate: 1-Chlorooctadecane	104	57.6-15	8						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 16' (H102224-04)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.67	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	34.2	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	39.4	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	154	1.50	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate. 4-Bromofluorobenzene (PIL	205	64.4-13	4						
TPH 8015M	mg,	/kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9170	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	20400	100	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	207	55.5-15	4						
Surrogate: 1-Chlorooctadecane	80.3	% 57.6-15	8						

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 20' (H102224-05)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.02	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	61.1	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	48.9	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	208	1.50	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate. 4-Bromofluorobenzene (PIL	232	% 64 4-13	4						
TPH 8015M	mg,	/kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15300	100	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	25100	100	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	259	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	107	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 30' (H102224-06)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.07	0.500	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	62.2	0.500	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	52.2	0.500	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	219	1.50	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate: 4-Bromofluorobenzene (PIL	193 9		4		~				
TPH 8015M	mg/	/kg	Analyze	d By: AB					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	9340	50.0	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	16000	50.0	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	172 5	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	90.0	% 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 35' (H102224-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	<0.050	0.050	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	<0.050	0.050	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	<0.150	0.150	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate: 4-Bromofluorobenzene (PIL	108 9	64.4-13	4				····		- va
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	138	10.0	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	96.9 9	% 55.5-15	4					·	
Surrogate: 1-Chlorooctadecane	99.7 9	57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 38' (H102224-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	<0.050	0.050	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	<0.050	0.050	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes [∗]	<0.150	0.150	10/17/2011	ND	6.20	103	6.00	1.33	
Surrogate: 4-Bromofluorobenzene (PIL	- 103 %	64.4-134	4		**	<u> </u>			
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	49.1	10.0	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	9199	6 55.5-154	4						
Surrogate: 1-Chlorooctadecane	92 2 %	6 57.6-158	8						

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Received:	10/14/2011	Sampling Date:	10/13/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	BRAHANEY GS 8" LINE 11-027	Sampling Condition:	Cool & Intact
Project Number:	701242.009.01	Sample Received By:	Jodi Henson
Project Location:	4-13S-38E		

Sample ID: B-1 45' (H102224-09)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/17/2011	ND	2.08	104	2.00	0.829	
Toluene*	1.82	0.200	10/17/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	3.44	0.200	10/17/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	15.3	0.600	10/17/2011	ND	6.20	103 /	6.00	1.33	
Surrogate: 4-Bromofluorobenzene (PIL	154 9	64 4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: AB	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	656	50.0	10/17/2011	ND	169	84.6	200	6.36	
DRO >C10-C28	3350	50.0	10/17/2011	ND	158	78.9	200	9.21	
Surrogate: 1-Chlorooctane	108 9	55.5-15	4						
Surrogate: 1-Chlorooctadecane	· 89.6	% 57 6-15	8						

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Celey D. Keine

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Notes and Definitions

	Samples reported on an as received basis (wet) unless otherwise noted on report
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
***	Insufficient time to reach temperature.
**	Samples not received at proper temperature of 6°C or below.
RPD	Relative Percent Difference
ND	Analyte NOT DETECTED at or above the reporting limit
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 12



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882	240																				
	(575) 393-2326 FAX (575) 393-247	6							na in Santa M											محصد مقدلته	-	لاحصاد
Сотрапу Name	Talon / LPE								ILL TO		ANALYSIS REQUEST											
Project Manage	General Adkins						P.C	D. #:		_/]											.
Address: 40%	2 LO. Jera-2						Company: Jaken 12PE															
City: Artes	ala State: MA	Zip:	81	21	\mathcal{O}_{\perp}		Att:	וי :	/													
Phone #: 575	-746-8768 Fax #: 575	. 74	6	891	75		Ado	dress:			-											
Project #: 7/1	242 . DOY. CV Project Owner	r: []	1.11	Ťí.	sir.	アン	City	/:	<u> </u>													
Project Name: 🗸	Pratichen BS 8" liv	11	0%	27	_		Sta	te:	Zip:													
Project Location	n: 4-135.78E						Pho	one #:			-								-			
Sampler Name:	Sprud Adkins						Fax	and the second se			Į											
FOR LABUSE ONLY		۱. ۱			MATE	XIX		PRESERV	SAMPLI	NG				1								
Lab I.D. H102220	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWALER WASTEWATER	SOIL	OIL	OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	тіме	BETX	TPH										
1	B-1 10'	G			1/			1	10-13-11		\square	1										
2	B-1 12'	G			11			11	10-13-11		1	1										
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analyses, All claims include service. In no event shall Ca	Id Damages, Gardmal's liability and clerif's ecclusive romedy for a sy those for negligence and any other cause wholenever shall be atimal be hable for incidental or consequential domages, including an out of or related to the performance of services hereinder by O Date:	deemed without ard[na]	waived Imitatic regardio	ບກໄອຣຣ ກ ດ, bປຣເດ	nade in w oss intern other suc	riting and uptions, h	receiv: oss of t	ed by Cardinal use, or loss of p	within 30 days after profits incurred by d as above clated rea	r completion of th lient, its subcidiai	ne applicat nes e	ale Ye	s []	No	Add'l P	house						
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Relinquished By:	Date: // Sim F	Received By:	-1.	Phone Result: Fax Result: REMARKS	□ Yes □ Yes	□ No □ No	Add'l Phone #: Add'l Fax #:	
Relinguished By:	10 1	Received By:	1					
Delivered By: (Circle One)	J	Sample Condition	1 .					
Sampler - UPS - Bus - Other:	4.5	Cool Intact	(Initials)					

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



October 01, 2011

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: CENTURIAN PIPELINE LMEP# 308-11-027

Enclosed are the results of analyses for samples received by the laboratory on 09/27/11 11:59.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 STOCKPILE (H102059-01)

BTEX 8021B	mg/l	kg	Analyze	d By: CMS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	10.2	1.00	09/28/2011	ND	2.24	112	2.00	5.39		
Toluene*	52.3	1.00	09/28/2011	ND	2.16	108	2.00	4.51		
Ethylbenzene*	42.2	1.00	09/28/2011	ND	2.17	108	2.00	3.91		
Total Xylenes*	181	3.00	09/28/2011	ND	6.51	109	6.00	3.69		
Surrogate. 4-Bi omofluorobenzene (PIL	176 %	6 64 4-13	4 ·							
TPH 8015M	mg/l	kg	Analyzed By: ck		·····		- <u></u>		S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	12600	100	09/30/2011	ND	159	79.3	200	1.26		
DRO >C10-C28	23300	100	09/30/2011	ND	183	91.5	200	2.71		
Surrogate. 1-Chlorooctane	281 %	6 55 5-15	4			-				
Surrogate. 1-Chlorooctadecane	144 %	6 57.6-15	8							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodı Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 6' (H102059-02)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30.8	1.00	09/28/2011	ND	2.24	112	2.00	5.39	
Toluene*	95.3	1.00	09/28/2011	ND	2.16	108	2.00	4.51	
Ethylbenzene*	53.4	1.00	09/28/2011	ND	2.17	108	2.00	3.91	
Total Xylenes*	232	3.00	09/28/2011	ND	6.51	109	6.00	3.69	
Surrogate: 4-Bromofluorobenzene (PIL	192 9	64 4-13	4				<u> </u>		
TPH 8015M	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11500	100	09/30/2011	ND	159	79.3	200	1.26	
DRO >C10-C28	12500	100	09/30/2011	ND	183	91.5	200	2.71	
Surrogate 1-Chlorooctane	91.3	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	102 \$	% 57 6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 (H102059-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.057	0.050	09/28/2011	ND	2.24	112	2.00	5.39	
Toluene*	0.199	0.050	09/28/2011	ND	2.16	108	2.00	4.51	
Ethylbenzene*	0.145	0.050	09/28/2011	ND	2.17	108	2.00	3.91	
Total Xylenes*	0.666	0.150	09/28/2011	ND	6.51	109	6.00	3.69	
Surrogate 4-Bromofluorobenzene (PIL	116 9	% 64 4-13	4					a garagene en	
TPH 8015M	mg/	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2011	ND	159	79.3	200	1.26	
DRO >C10-C28	73.0	10.0	09/30/2011	ND	183	91.5	200	2.71	
Surrogate 1-Chlorooctane	89 9	% 55 5-15	4						
Surrogate. 1-Chlorooctadecane	89 6	% 57.6-15	8						

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*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's lability and client's exclusive remedy for any claim ansing, 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 waved 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 ansing 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 Laboratones.

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Received:	09/27/2011	Sampling Date:	09/26/2011
Reported:	10/01/2011	Sampling Type:	Soil
Project Name:	CENTURIAN PIPELINE LMEP# 308-11-02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 (H102059-04)

BTEX 8021B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2011	ND	2.24	112	2.00	5.39	
Toluene*	<0.050	0.050	09/28/2011	ND	2.16	108	2.00	4.51	
Ethylbenzene*	<0.050	0.050	09/28/2011	ND	2.17	108	2.00	3.91	
Total Xylenes*	0.185	0.150	09/28/2011	ND	6.51	109	6.00	3.69	
Surrogate 4-Bromofluorobenzene (PIL		64.4-13	4						
TPH 8015M	mg,	'kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2011	ND	159	79.3	200	1.26	
DRO >C10-C28	58.6	10.0	09/30/2011	ND	183	91.5	200	2.71	
Surrogate 1-Chlorooctane	80 6	% 55 5-15	4						
Surrogate: 1-Chlorooctadecane	824	% 57.6-15	8						

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Celez D. Kune

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.
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 SM4500CI-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. Kune

Celey D. Keene, Lab Director/Quality Manager

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