

Bratcher, Mike, EMNRD

From: Michael Stubblefield [mstubblefield@talonlpe.com]
Sent: Tuesday, September 07, 2010 7:20 AM
To: Bratcher, Mike, EMNRD
Subject: FW: WILLIAMS A FEDERAL BATTERY
Attachments: H20698 TALON.pdf

Mike,

Please review the attached analytical, I need to meet with you this morning.
I'll come over to your office about 10:00am. If there is a problem with my meeting
time give me a call at 575-441-7254.

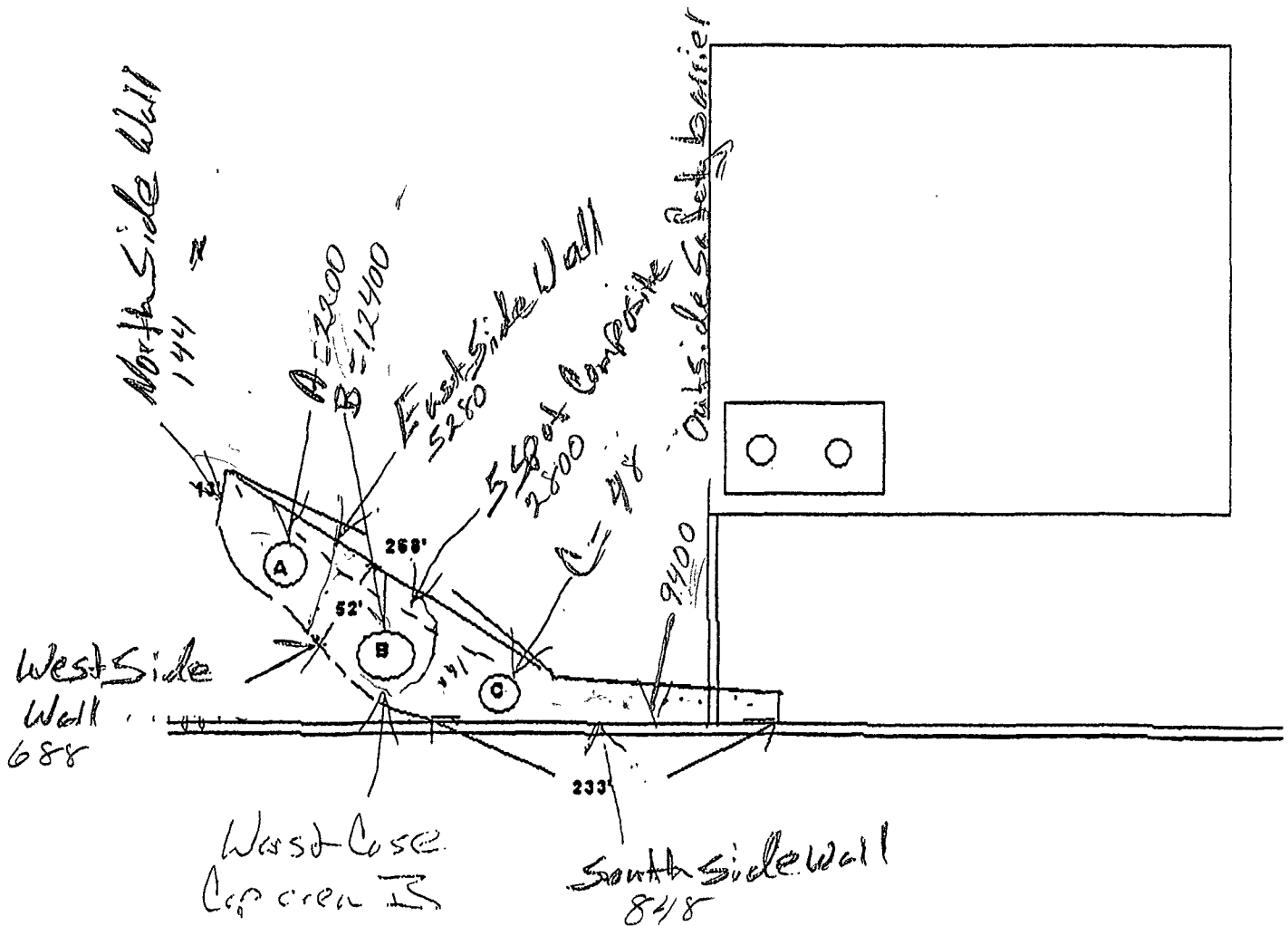
Mike Stubblefield

From: Celey Keene [mailto:celey.keene@cardinallabsnm.com]
Sent: Thursday, September 02, 2010 1:36 PM
To: Michael Stubblefield
Subject: WILLIAMS A FEDERAL BATTERY

THANK YOU,

Celey Keene
Lab Director
Cardinal Laboratories
101 East Marland
Hobbs, NM 88240
T: (575) 393-2326
F: (575) 393-2476
e-mail: celey.keene@cardinallabsnm.com

Lime Rock Resources Williams A Tank Battery





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

September 02, 2010

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WILLIAMS A FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/23/10 11:14.

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 Hydrocarbons

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

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 (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,

Caley D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 001 EASTSIDE WALL (H020698-01)

BTEX 8021B		mg/kg	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2010	ND	0.835	83.5	1.00	2.08		
Toluene*	<0.050	0.050	08/26/2010	ND	0.885	88.5	1.00	0.968		
Ethylbenzene*	<0.050	0.050	08/26/2010	ND	0.933	93.3	1.00	0.570		
Total Xylenes*	<0.150	0.150	08/26/2010	ND	2.75	91.6	3.00	0.441		

Surrogate 4-Biomofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	08/24/2010	ND	416	104	400	3.77		

TPH 8015M		mg/kg	Analyzed By: AB							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10		
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83		

Surrogate 1-Chlorooctane 104 % 70-130

Surrogate 1-Chlorooctadecane 109 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 002 SOUTHSIDE WALL (H020698-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 103 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10		
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83		

Surrogate 1-Chlorooctane 109 % 70-130

Surrogate 1-Chlorooctadecane 142 % 70-130

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 003 WESTSIDE WALL (H020698-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 104 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 115 % 70-130

Surrogate 1-Chlorooctadecane 124 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 004 NORTHSIDE WALL (H020698-04)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 101 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 106 % 70-130

Surrogate 1-Chlorooctadecane 123 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 005 BOTTOM EXCAVATED AREA (H020698-05)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08		
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968		
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570		
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441		

Surrogate 4-Bromofluorobenzene (PIL) 106 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	08/24/2010	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10		
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83		

Surrogate 1-Chlorooctane 100 % 70-130

Surrogate 1-Chlorooctadecane 118 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 006 EXCAVATED AREA A 4' BGS (H020698-06)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 103 % 70-130

Surrogate 1-Chlorooctadecane 105 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 007 EXCAVATED AREA B 6' BGS (H020698-07)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 103 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 111 % 70-130

Surrogate 1-Chlorooctadecane 118 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 008 EXCAVATED AREA C 12' BGS (H020698-08)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08		
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968		
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570		
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441		

Surrogate 4-Bromofluorobenzene (PIL) 101 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/24/2010	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 103 % 70-130

Surrogate 1-Chlorooctadecane 115 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 009 EXC. AREA 4' BGS P/L RIGHTAWAY (H020698-09)

BTX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2010	ND	180	89.9	200	3.28	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	200	99.9	200	2.66	

Surrogate 1-Chlorooctane 105 % 70-130

Surrogate 1-Chlorooctadecane 120 % 70-130

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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 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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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Mica Stoltz		8/23/2010		Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time:		11:14 AM		REMARKS:		
Relinquished By:		Date:	Received By:			
			John Hendon			
Time:						
Delivered By: (Circle One)		Sample Condition	CHECKED BY:			
Sampler - UPS - Bus - Other		Cool Intact	(Initials)			
		<input type="checkbox"/> Yes <input type="checkbox"/> No				
		<input type="checkbox"/> Yes <input type="checkbox"/> No				

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