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State of New Mexico Energy Minerals and Natural Resources

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

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

MAING		•					orrective A	CULUM	-			
	539506					OPERA			🗌 Init	tial Report	X	Final Repo
		me Rock Re		0.0147		Contact Michael Barrett Telephone No. 575-623-8424						
Address P.O. Box 2147 Roswell, NM 88202-2147 Facility Name Williams A Federal Battery						A	No. 575-623-84.					
							c Troduction D			·		
Surface Ov	vner			Mineral C	)wner F	ederal			Lease 1	No. NM 048	34	
						N OF RE	LEASE					
Unit Letter N	hit Letter Section Township Range 29 17s 28e 590' Feet from the FSL				South Line	Feet from the 2185'	East/V FWL	Vest Line	County EDDY			
			La	titude		_ Longitud	le					
			-	NAT	URE	OF REL			·			
Type of Rele Source of Re	ase Produce	ed Water					Release 85 bbls			Recovered 0 Hour of Disc		
-	10430	•				08/02/2010		,c		10 8:30am	overy	
Was Immedi	ate Notice C					If YES, To						
		Х	Yes 📋	No 🗌 Not Red	quired	Notified M	like Bratcher by v	oicemai	ı <b>l.</b>			
	Michael Bar			······	<u></u>	Date and H	Iour 08/03/2010	8:25am				
Was a Water	course Read	_	Yes X	No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
		pacted, Descr										
		em and Reme	ulai Aciioi						, ,			010
Describe Arc	ea Affected a	and Cleanup A surface; 50' x	water. Isol Action Tak 155'. Pacl	ated, emptied & 1 en.*	v caliche	. Notified BL	M. Remediation	actions		NMOCD		
Describe Are alon/LPE. hereby cert egulations a ublic health hould their o r the enviro	ea Affected a ely affected a Attached Re ify that the i Il operators or the envir operations h nment. In a	and Cleanup A surface; 50' x mediation Wo nformation gi are required to ronment. The ave failed to a	water. Isol Action Tak 155'. Pacl ork plan an ven above o report an acceptanc idequately OCD accep	ated, emptied & n en.* ked and rocky dry d Closure report is true and comp d/or file certain re e of a C-141 repo investigate and re	v caliche dated Oc lete to th elease no ort by the emediate	Notified BL ctober 7, 2010 ne best of my ptifications and NMOCD me contaminati	M. Remediation a D. knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of t	nderstar tive acti eport" d eat to gr responsi	were taken nd that purs ions for rel ioes not rel iound water ibility for c	by suant to NMO eases which n ieve the opera r, surface wate ompliance wi	AR PCD runay en tor of er, hur th any	TESIA lles and danger liability nan health
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Describe Are Approximate Falon/LPE. A hereby cert egulations a bublic health hould their of or the enviro ederal, state Signature: Trinted Nam Title: Pro-	ea Affected a ely affected a Attached Re ify that the i Il operators or the envir operations h nment. In a or local law <u>mut</u> e: <u>Mich</u> ess: <u>Marr</u>	and Cleanup A surface; 50' x mediation Wo nformation gi are required to ronment. The ave failed to a ddition, NMC vs and/or regu $Rec \int R$ $Acc \int R$ $S \cup per V$ ct + Chim	water. Isol Action Tak 155'. Pacl ork plan an ven above o report an acceptance adequately DCD accept acceptance adequately DCD accept attions.	ated, emptied & n en.* ked and rocky dry d Closure report d/or file certain re of a C-141 repo investigate and re tance of a C-141	ete to the elease no ort by the emediate report de	Notified BL tober 7, 2010 te best of my partifications and NMOCD m e contaminations poss not reliev	M. Remediation and perform correct arked as "Final R on that pose a three the operator of the OIL CONS Signed Supervise OCT 222	nderstar tive acti eport" d eat to gr responsi <u>SERV</u> 	were taken nd that purs ions for rel ions for rel iound wate: ibility for c ATION Benne	NMOCD by suant to NMO eases which n ieve the opera r, surface wate ompliance wi DIVISIO	AR PCD runay en tor of er, hur th any	TESIA lles and danger liability nan health



AMARILLO 921 North Bivins Amarillo, Texas 79107 Phone 806 467 0607 Fax 806 467 0622

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ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION EMERGENCY RESPONSE

> Toll Free 866 742 0742 www.talonipe.com

October 7, 2010

OCT 15 2010 NMOCD ARTESIA

Mr. Mike Bratcher **NMOCD District 2** 1301 West Grand Avenue Artesia, NM 88210

# Subject: Soil Assessment and Remediation Work Plan Final Closure Report Lime Rock Resources Operating Company, Inc. Williams A Federal Battery Produced Water Release

Dear Mr. Bratcher,

Lime Rock resources Operating Company. Inc. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Williams A Federal Battery facility located approximately 11-miles east of Artesia, New Mexico. With-in this transmittal Talon/LPE (Talon) proposes our work plan and a final closure report to perform soil assessment and remediation activities consists of the following:

# **Incident Date**

August 2, 2010

# **Background Information**

The Williams A Federal Battery is located approximately eleven (11) miles east of Artesia, NM. The legal location for the site is Ut.N Section 29-17s-28e.

This site lies on a plateau that is greater in elevation then the surrounding terrain. Drainage courses in this area are normally dry. The local surface and shallow geology includes loamy, silty soils under lain by lime stone and dolomite rock formations. The New Mexico State Engineer web site indicates the nearest ground water data to be in Section 34-17s-28e. The ground water in section 34 is reported to be at an average depth of 52' below ground surface (bgs).

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

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



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# **Incident Description**

On August 2, 2010 a 3-inch poly line located northwest of the tank battery ruptured. The volume of the release was estimated to be eighty-five (85) bbls of produced water. The release area was measured to be one hundred and fifty-five (155') feet in length and fifty (50') feet in width. The release area is sloped and traversed by above grade poly flow lines.

# **Actions Taken**

The leaking flow line was isolated, emptied and then taken out of service. This section of line was replaced with Seven (7,000) thousand feet of new poly flow line. The weather was dry and windy at the time of the release.

No free waters were recovered. The New Mexico One Call was contacted and a One Call was ordered. Equipment was immediately brought to the site and a berm was constructed down grade of the release to contain any rain that might occur.

# **Proposed Remedial Actions**

- The impacted soil from the release will be vertically and horizontally delineated. Background soil samples will be taken.
- Based on the Recommended Remediation Action Level for the area, the impacted soils will be excavated and transported to an NMOCD approved solid Waste disposal facility (Lea Land, LLC) for disposal. The Chlorides will be corrected to site specific levels as agreed upon; or to the existing background for Chlorides in the area. Once the excavation is complete, confirmation samples will be collected from the excavated areas. Samples collected will be place in laboratory provided sample containers. These samples will be labeled, iced, and delivered to a certified laboratory for analysis per EPA SW-846 Method 8015 GRO/DRO for total petroleum hydrocarbons (TPH); EPA SW-846 Method 8021 for benzene, ethybenzene, toluene, and total xylenes (BTEX); and for total Chlorides using EPA Method E 300.0.
- A final report will be provided to the NMOCD Artesia Office utilizing Form C-141. Upon receipt of acceptable laboratory results and report approval, the excavation will be backfilled to grade using clean fill material. The backfilled area will be contoured to match the surrounding terrain.



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# **Final Closure Report**

RDL Excavation and Construction mobilized and brought equipment to the release site on August 6, 2010. The impacted soil from the release was excavated and then transported to and NMOCD approved Solid Waste disposal facility (Lea Land LLC.) A total of 4252 cu. yds soil was transported to Lea Land LLC for disposal. On August 18, 2010 notification to witness soil samples to be taken for analysis was provided to NMOCD/Mike Bratcher and BLM/Terry Gregston. Soil samples were taken from the excavated area for analysis on August 20, 2010. Samples collected were placed in laboratory provided sample containers. These samples were labeled, iced, and delivered to Cardinal Laboratory in Hobb's New Mexico for analysis per EPA SW-846 Method 8015 GRO/DRO for total petroleum hydrocarbons (TPH); EPA SW-846 Method 8021 for benzene, ethybenzene, toluene, and total xylenes (BTEX); and for total Chlorides using EPA Method E 300.0.

The analytical results received for Cardinal Lab dated September 2, 2010 reported the TPH GRO/DRO to be under the RRAL for the site in all samples as required by the Guide lines for leaks, spills and releases. The Chlorides were reported in elevated ranges in the soil samples labeled eastside wall, area B, and the pipeline right of way.

On September 8, 2010 a meeting was conducted at the Williams A Federal battery release site with NMOCD/Mike Bratcher. Mr. Bratcher reviewed the analytical reports dated September 2, 2010 and inspected the excavated area with Talon/LPE Project Manager Mike Stubblefield. Mr. Bratcher requested additional soil samples to be taken for further delineation for chlorides from the southside wall, eastside wall, and area B located in the bottom of the excavation. Additional excavation activities were then taken with impacted soil being excavated from the eastside wall of the excavated area, additional material was removed in area B. The excavated soil was subsequently transported to Lea Land LLC. On September 8, 2010 Soil samples were taken for vertical delineation from the area located south of the pipeline right of away, and the area labeled B. A composite soil sample was also taken from the eastside wall of the excavated area.

Analytical results dated September 10, 2010 received form Cardinal Laboratory reported the Soil Sample labeled ID 001 - Chlorides <16 mg/kg in the area located four feet south of the pipeline right of way. Soil sample labeled ID 002 reported chlorides - 192 mg/kg in the area located four feet east of the eastside wall. Soil sample labeled ID 003 reported chlorides - 624 mg/kg in the area B 6' below ground surface (bgs) in the bottom of the excavated area. Soil sample labeled ID 004 reported the chlorides – 160 mg/kg for the composite soil sample taken from the eastside wall.



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The analytical results dated September 10, 2010 were the provided to BLM/Terry Gregston and NMOCD/Mike Bratcher. Mrs. Terry Gregston E-mailed Mike Stubblefield Project Manager with Talon on September 16, 2010 giving approval for Lime Rock Resources to start the backfilling of the excavated area at the Williams A Federal battery. Mr. Mike Bratcher E-mailed Mike Stubblefield on September 22, 2010 giving Lime Rock Resources permission to start the backfilling of the excavated area. The excavated area was subsequently backfilled to grade matching the surrounding terrain. Native soil was purchased from the Turkey Track Ranch borrow pit for the backfilling operations. Lime Rock Resources requests closure for the release that occurred on August 2, 2010 at the Williams A Federal battery.

Should you have any questions, or if we can be of further assistance, please do not hesitate to contact me at 575-746-8768, or my cell 575-441-7254.

Respectfully submitted,

**Talon/LPE** 

Stillef

Mike Stubblefield Project Manager



# LABORATORY REPORTS

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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 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,

Celuy D. Kune

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: 001 EASTISIDE WALL (H020698-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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-Bromofluorobenzene (PIL	100 9	% 80-120	)			··· ···			
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	5280	16.0	08/24/2010	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: AB			- <u></u>		-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 70-130							

Surrogate 1-Chlorooctadecane 109 % 70-130

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D.Kune

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: 002 SOUTHSIDE WALL (H020698-02)

BTEX 80218	mg/	kg	Analyze	d 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 9	% 80-120							
Chloride, SM4500CI-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	Analyze	d 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 9	% 70-130							
Surrogate 1-Chlorooctadecane	142 9	% 70-130							

**Cardinal Laboratories** 

### \*=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	Analyze	d 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 %	6 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/24/2010 <sup>,</sup>	ND	416	104	400	3.77	
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	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	% 70-13(	)						

Surrogate:1-Chlorooctane115 %70-130Surrogate:1-Chlorooctadecane124 %70-130

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### \*=Accredited Analyte

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

123 %

70-130

# 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	Analyze	d By: CK				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 80-120	)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	144	16.0	08/24/2010	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10	
0000000						90.7	200		

**Cardinal Laboratories** 

Surrogate. 1-Chlorooctadecane

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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: 005 BOTTOM EXCAVATED AREA (H020698-05)

BTEX 8021B	mg/	'kg	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	d 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 9	% 70-130							
Surrogate. 1-Chlorooctadecane	118 9	% 70-130							

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Celey D.Kune

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	Analyze	d 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	)			n na hanna ann an Anna			
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	)	1					

Surrogate. 1-Chlorooctadecane 105 % 70-130

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Celey D.Kune

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

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	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	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	1119	% 70-130							
Surrogate 1-Chlorooctadecane	118 9	% 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	Analyze	d 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	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	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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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)

BTEX 8021B	mg/l	«g	Analyze	d 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 %	6 80-120							
Chloride, SM4500Cl-B	mg/l	<g< td=""><td>Analyze</td><td>d By: HM</td><td></td><td></td><td></td><td></td><td></td></g<>	Analyze	d 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/i	(g	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 %	5 70-130							
Surrogate 1-Chlorooctadecane	120 %	5 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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

### **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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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 13

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Nan	/	470																							
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Project Manag	er: Mike Stubble field			.,	<del></del>			7	P.O.			<u> </u>	101 E 41 1197 24, 7	<u> </u>	[	1	T	T	T	T		Γ Τ	T	1	
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Phone #:	575- 441- 7254 Fax #: 52	< -n	w/	ھقہ ک	ine								r	-	}	1							i	1	
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	on: Sec. 29- 175- 28c	:ry							State			Zip: 882		_											
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CONCINE ONLY						TAN	RIX		P	RES	ERV	SAMPL	ING	]	1	2	2	1							
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Relinquished By: Date: In the every sub-central to express to incidental or consequential damages, including without limitation, business interruptions, toss of use, or toss of profits incurred by casen, as successions, and the performance of services interruption of the above stated reasons or otherwise. Relinquished By: Date: Incurred by: Phone Result: Date: 8 23 20 10 Time: 11: 14 90 Yes No Add'l Phone #:
Yes No Add'l Fax #: Fax Result: REMARKS: Relinquished By Date: **Received By:** Time: 1 Ü Delivered By: (Circle One) Sample Condition CHECKED BY: U Cool Intact Sampler - UPS - Bus (Other: (Initials) ( Ð 6 LAX n

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

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#26

# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Company Name:	TRIUNLPE										3//	LTO	3代13数据3					ANA	LYSIS	RE	QUE	ST		
Project Manager								Р.С	). #:									Γ		1				
Address:	408 W. TELAS AVE							Co	mpa	iny:	: Lı	ime Rock	Res.					1						
City:	Artesia State: NM	Zip	: 6	382	10							Smith											1	
Phone #:	575-441-7254 Fax #: 575.7	96	. 8.	nos	•							103 Ensi	MAIN					1				1		
Project #:	201302-004.01 Project Owner	:: <u>Li</u>	'ne	Roc	KR	e( .		Cit	y:	A	<u>rtc</u>	STA.							1					
Project Name:	Williams A Federal Battery							Sta	te:			Zip: 88-	210											
Project Location	1: Soc. 29-171-28e							Ph	one	#:	51	5-748-	7724											
Sampler Name:	Mike Shelleful											5-748-				l l								
FOR LAB USE ONLY		Į.		<b>_</b>	N	ATR	X		PRE	SE	RV.	SAMPLI	NG			2		1						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH BUISM	1 100	ToTAL Chloride								
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9	009 Excavated Area 4'595 Pipeline Rightaway	c										8/24/2010	10:5540	-	v	1								 
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PLEASE NOTE: Labelity and Damages. Certiline's liability and clent's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount part by the clent for the 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 30 days after completion of the applicable service In no event shall Cardnet be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries,

	services hereunder by C	ardinal, regardless of whether such claim is besed upon any of the above stated re	asons of otherwise.			
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Relinquished By:	Date:	Received By:				
	Time:	Odi Sunson.				
Delivered By: (Circle One)		() Sample Condition CHECKED, BY:				
Sampler - UPS - Bus - Other		Cool Intact (initials)				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 -472.6

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(505) 393-2326 FAX (505) 393-2476

Company Name	· TA)ONLPE							報		關節	3]	LL TO							ANA	LYSI	S RE	QUE	ST			
Project Manage								Ρ.	0. #	:																
Address:	408 West Texas Ave.			·				Co	mp	any	: L	ime Rod	Res.								1.					
City:	Artesia State: NM	Zip	: {	207	ړدن			At	tn: .	Teli	v s	mith	<b>`</b>													
Phone #:	575- 491- 7254 Fax #: 525	-74	6.	84	25			A	idre	ss:	3	103 EAG	T MAIN	<u>,</u>												
Project #:	701307.064.0 Project Owner	r: Li	me.	Ro	:K	Res .		Ci	ty:	Arti	esī	A						ĺ								
Project Name:	Williams A Federal Battery	r						St	ate:			Zip: 88:	210													
Project Location	n: sec 29- 175- 28c /							Pł	none	• #:	5	25.748.	9724									1				
Sampler Name:	mike stubblefield				_							5-14%-														
FOR LAB USE ONLY					N	ATR	X	T	PR	ESE	RV.	SAMP	JNG	_			fe									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# Containers	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME		TPH BOISM	BTEX 8060	Total Chlorida									
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effiliates or successors arising out of or related to the performance of	if services hereunder by C	ardinal, regardless of whether such claim is based upon any of the above stated re	asons or otherwise.			
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Relinguished By	Date:	Received By:				
	Time:	Jodi Genson				
Delivered By: (Circle One)		Sample Condition CHECKED BY:				
Sampler - UPS - Bus Other:		Cool Intact (Initialis)				

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

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#26

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476

Company Name	· TALUNLPE							ąġ			IJ	4.70	NER	5				ANA	LYSI	S RE	QUE	ST		
Project Manage	mike stubblefield						_	_	). #:											T	<u> </u>	1		
Address:	40% W. TERAS AVE							Co	mpa	any:	L	ime Rock	Res-	]										
City:		Zip	: 🧧	382	210							Smith											l	
Phone #:	575-441-7254 Fax #: 575-7	746	· 8.	nas	•							103 Envi	MAIN								1		1	
Project #:	201307.004.01 Project Owner	r: Li	ne	Roc	KR	c ( .						STA.				1				1				
Project Name:	Williams A Federal Battery							Sta	te:			Zip: <i>88</i>	210											
Project Location	n: Sec. 29-175-28e							Ph	one	#:	51	5-748-	9724							·				
Sampler Name:	Mile Shelleful			_								5-248.												
FOR LAB USE ONLY		<b>.</b>		_	M	ATR	<u>x</u>	-	PRI	ESER	<u>۲</u>	SAMPLI	NG	1		1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH BUISD		Total chloridel								
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	TIPETING INSTITUTE					+	+				┨										┼──			 
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PLEASE NOTE: Labelity and Damages. Cardina's labelity and client's exclusive remady for any datin arking whether based in contract or tort, shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries,

Relinguished By:	Date:	Received By:	Phone Result:	Yes	D No	Add'I Phone #:
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Relinquished By:	Date:	Received By:				, ,
	Time:	pali tenson				
Delivered By: (Circle One)		Sample Condition CHECKED BY:				
Sampler - UPS - Bus - Other		Cool Intact (initials)				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393 4476

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#26

September 10, 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 09/08/10 15:22.

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

# Analytical Results For:

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

Received:	09/08/2010	Sampling Date:	09/08/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307-004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

# Sample ID: 001 S SIDE WALL 4' OF P/L 1'BGS (H020814-01)

Chloride, SM4500Cl-B	, mg,	•	-	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/09/2010	ND	432	108	400	0.00	

### Sample ID: 002 E SIDE WALL 4' E OF E SIDE WALL (H020814-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/09/2010	ND	432	108	400	0.00	

### Sample ID: 003 EXCAVATED AREA 6' BGS (H020814-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/09/2010	NÐ	432	108	400	0.00	

# Sample ID: 004 EAST SIDE WALL (H020814-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/09/2010	ND	432	108	400	0.00	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476

Company Name: JALOO/LAF						BILLTO					ANALYSIS REQUEST														
							P.O. #:										Ī								
						Company: Lime Rodl Res.																ľ			
						Attn: Jeny Swith																			
						Address: 303 East Main										1		1							
						City: Artesia									ļ	1	1								
Project Name:	Williams A Federal Jank battery		11	<u></u>		161	<u> </u>			NM		Zip: 88:	010					1							
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Project Location: prc. 29 - 17 - 78e Sampler Name: men Shellfjuhd					Phone #: <u>575-248-9724</u> Fax #: <u>575-248-9810</u>						<del>ت</del> ا			]							i				
FOR LAB USE ONLY		Г	Г	1	N	ATR	X		PRI			SAMPLI		1						1	1	1	1 1		,
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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