Bratcher, Mike, EMNRD

From:	Michael Stubblefield [mstubblefield@talonlpe.com]
Sent:	Friday, February 03, 2012 9:33 AM
То:	Bratcher, Mike, EMNRD
Cc:	gnewton@pvtnetworks.net
Subject:	FW: ARTESIA UNIT NO 34 RELEASE 2RP-768
Attachments:	H200198 TALON.pdf

Dear Mr. Mike Bratcher,

Talon/LPE is sending you the analytical results for the soil samples collected on 1/26/2012 at the Quantum Resources Management, LLC Artesia Unit No. 34 release 2RP-768. Based upon the analytical results Quantum Resources Management, LLC is requesting approval to start backfilling the excavated area. The excavated area will be backfilled from 10'-deep to 4'-deep using new soil transported to the location, a 20 Mil. liner will be placed into the bottom of the excavation, the excavation will be backfilled to grade. If further information is required please contact me at 575-441-7254.

Mike Stubblefield

Project Manager Talon/LPE 408 West Texas Avenue Artesia, New Mexico 88210 (575) 746.8768 phone (575) 746.8905 fax (575) 441.7254 cell www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist Staples Foundation for Learning Hall of Fame Recipient: 2010 ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006 Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

From: Celey Keene [mailto:celey.keene@cardinallabsnm.com]
Sent: Tuesday, January 31, 2012 9:41 AM
To: Michael Stubblefield
Cc: David Adkins; Kimberly M. Wilson
Subject: ARTESIA UNIT NO 34 RELEASE 2RP-768

~ •

THANK YOU,

Celey Keene Lab Director Cardinal Laboratories 101 East Marland Hobbs, NM 88240 The information contained in this message is confidential and is only intended for the use of the individual/firm named above. If the reader of this message is not the intended recipient or the employee/agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail or telephone in order to return the message.



January 31, 2012

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: ARTESIA UNIT NO. 34 RELEASE 2RP-768

Enclosed are the results of analyses for samples received by the laboratory on 01/26/12 15:05.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/26/2012	Sampling Date:	01/26/2012
Reported:	01/31/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R28E		

Sample ID: S-1 NORTHSIDE WALL (H200198-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	ND	6.46	108	6.00	6.43	
Surrogate · 4-Bromofluorobenzene (PIL	109 \$	% 64 4-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/27/2012	ND	416	104	400	8.00	
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	01/28/2012	NŅ	180	90.1	200	2.81	
DRO >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate 1-Chlorooctane	95.0	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	123 9	% 576-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/26/2012	Sampling Date:	01/26/2012
Reported:	01/31/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R28E		

Sample ID: S-2 EASTSIDE WALL - 1 (H200198-02)

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	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	ND	6.46	108	6.00	6.43	
Surrogate 4-Bromofluorobenzene (PIL	107 9	64 4-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2012	ND	416	104	400	8.00	
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	01/28/2012	ND	180	90.1	200	2.81	
DRO >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate 1-Chlorooctane	92 6	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	121 9	57 6-15	8						

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Page 3 of 10



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

Received: 01/2	26/2012	Sampling Date:	01/26/2012
Reported: 01/3	31/2012	Sampling Type:	Soil
Project Name: ARTI	ESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number: NON	IE GIVEN	Sample Received By:	Jodi Henson
Project Location: SEC.	. 2 - T18S - R28E		

Sample ID: S-3 WESTSIDE WALL - 1 (H200198-03)

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	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	, ND	6.46	108	6.00	6.43	
Surrogate 4-Bromofluorobenzene (PIL	107	% 64 4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	. Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2012	ND	416	104	400	8.00	
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	01/28/2012	ND	180	90.1	200	2.81	
DRO >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate 1-Chlorooctane	93,7	% 55.5-15	4					•	
Surrogate 1-Chlorooctadecane	123	57.6-15	8						

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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:	01/26/2012	Sampling Date:	01/26/2012
Reported:	01/31/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R28E		

Sample ID: S-4 SOUTHSIDE WALL (H200198-04)

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	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	ND	6.46	108	6.00	6.43	
Surrogate 4-Bromofluorobenzene (PIL	107 9	% 64 4-13	4						_
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/27/2012	ND	416	104	400	8.00	
трн 8015м	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	01/28/2012	ND	180	90.1	200	2.81	
DRO >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate 1-Chlorooctane	103 :	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	` 139 !	% 576-15	8						

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Page 5 of 10



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

Received:	01/26/2012	Sampling Date:	01/26/2012
Reported:	01/31/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R28E		

Sample ID: S-5 EASTSIDE WALL - 2 (H200198-05)

BTEX 8021B	mg;	'kg	Analyze	Analyzed By: AP		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	ND	6.46	108	6.00	6.43	

Surrogate 4-Bromofluorobenzene (PIL 108 % 64 4-134

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/27/2012	ND	416	1044	400	8.00	
ТРН 8015М	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2012	ND	180	90.1	200	2.81	
DRØ >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate: 1-Chlorooctane	105	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	141	% 57 6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/26/2012	Sampling Date:	01/26/2012
Reported:	01/31/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodı Henson
Project Location:	SEC. 2 - T18S - R28E		

Sample ID: S-6 WESTSIDE WALL - 2 (H200198-06)

BTEX 80218	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	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	ND	6.46	108	6.00	6.43	
Surrogate 4-Bromofluorobenzene (PIL	107 9	64 4-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/27/2012	ND	416	104	400	8.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2012	ND	180	90.1	200	2.81	
DRO >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate 1-Chlorooctane	957	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	128 9	% 576-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/26/2012	Sampling Date:	01/26/2012
Reported:	01/31/2012	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 34 RELEASE 2RP-768	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R28E		

Sample ID: S-7 BOTTOM 10' BGS (H200198-07)

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	01/30/2012	ND	1.94	96.9	2.00	6.70	
Toluene*	<0.050	0.050	01/30/2012	ND	2.07	104	2.00	6.87	
Ethylbenzene*	<0.050	0.050	01/30/2012	ND	2.07	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	01/30/2012	ND	6.46	108	6.00	6.43	
Surrogate 4-Bromofluorobenzene (PIL	108 %	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	01/27/2012	ND	416	104	400	8.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2012	ND ·	180	90.1	200	2.81	
DRO >C10-C28	<10.0	10.0	01/28/2012	ND	210	105	200	2.67	
Surrogate 1-Chlorooctane	79.4	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	108 %	57 6-15	8						

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Celey D. Keene, Lab Director/Quality Manager

Rage 8 of 10



Notes and Definitions

S-MS Surrogate recovery outside of acceptance window confirmed as matrix effect by analysis of MS/MSD on the	s sample.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 202 2226 EAV (576) 202 2476

Company Name	(575) 393-2326 FAX (575) 393-24	10								
Company Name	Takon/LPE	BILL TO	(32) (32) 			ANAL	YSIS F	REQUEST	 	
Project Manage	" Mike Stubblefield		P.O. #:							
Address:	408 WEST TEXAS AUC.	Company: Takon/LPI	E							
City:	Articia State: NA	1 Zip: & ZIÓ	Attn:					1		
Phone #:	575-441-7254 Fax #:		Address:							
Project #:	Project Own		City:							
Project Name:	Artesia Unit No 34 release n: Sec. 2-T185-REE	ZRP-768	State: Zip:							
Project Location	n: Ser. Z-T185-REE		Phone #:							
Sampler Name:	mile Sullifield		Fax #:							
FOR LAB USE ONLY	- V	MATRIX	PRESERV. SAMPLING	;	RPH BTEK	qc 1				
-	x	(C)OMP ERS ATER FER			APH STER	.2				
		ATE ATE (C)(Total chloride				
Lab I.D.	Sample I.D.	AIN OR OR	ASE .		8 2	-				
		(G)RAB OR (C) # CONTAINERC GROUNDWATE GROUNDWATE GROUNDWATE SCIL SLUTGE	OTHER ACID/BASE: CCE / COOL OTHER .		8015 M	3				
11200198		(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SCIL OIL SLUDGE	E E E DATE	TIME	90 00	E				
1	S. I MATERIA MAIN		1/ 1/26/12/11	:38A	1/	/				
2	S-2 Eastside Wall - 1 S-3 Westside Wall - 1		1 1/20/12 M	:42 A	//	<u> </u>				
3	S. 3 WESTSICK Wall - 1		1 1/26/12 11	:44 A 🔹		2				
1 Y	13-4 South Slar Vall		1/36/12 11:		- / -					
5	S. 5. Eastside WALL - Z		1 1/21/12 11	:48A /						
	S-6 Wootside Wall-Z		1/2/12/11	:580 \$						
7	S.5. Eastfild Wall - Z S.6 Woodfild Wall - Z S.7 Bottom 10 695		1 1/26/12 12	2:07 8 1	/ /	2				
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analyses All claims includi	nd Damagos, Caro nal's Raadity and client's exclusive remoty a ng tirose for negligence and any other sause whatenever shall f	e deemee walved unless made in willing ar	id received by Cardinal with a 30 days after corr	mpletion of the ap	plable					
	ardinal pellable for incidental or consequental damages, arclud ng out of or related to the performance of services bere inder o	Cardinal, regardless of whicther ruch claim								
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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