# OCD-ARTESIA

Form 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

5 Lease Serial No. NM-98173

Do not use this t	form for proposals a Use Form 3160-3 (A	to drill or to	re-enter a		6. If Indian, Allottee	e or Tribe Name	
SUBMI	T IN TRIPLICATE - Other	r instructions or	page 2.		7. If Unit of CA/Ag	reement, Name and/or No.	
1. Type of Well					NM-101348	4,14,2000	
Oil Well Gas W					8. Well Name and N Millman SE Feder		
Name of Operator     Devon Energy Production Company	, LP		•		9. API Well No. 30-015-30376		
3a. Address		3b. Phone No.	(include area c	ode)	10. Field and Pool o	r Exploratory Area	
20 N. Broadway, Ste 1500, Oklahoma City, OK		405-235-3611			Parkway Morrow \		-
4. Location of Well (Footage, Sec., T., 2310' FNL & 660' FWL, UL E-33-T19S-R29E	R.,M., or Survey Description	11. Country or Paris	h, State				
12 CHEC	CK THE APPROPRIATE BO	Y/ES) TO IND	CATE NATUR	PE OF NOTIC		THER DATA	
	THE AFFRORMATE BO					HER DATA	<del></del>
TYPE OF SUBMISSION				YPE OF ACT			
Notice of Intent	Acidize	Deepe	en 1re Treat	_	uction (Start/Resume)	Water Shut-Off	
	Alter Casing  Casing Repair	_	Construction	$\equiv$	amation omplete	Well Integrity  Other Reclamation	on of
Subsequent Report	Change Plans		and Abandon	_	porarily Abandon	Drilling Pit	
Final Abandonment Notice	Convert to Injection				er Disposal		
1. Talon/LPE was retained by Devo Federal #1. A total of 3,014.01 cubi 2. In June 2011, Talon/LPE remobil subsequently excavated to prepare 3-7 feet deep. A total of 11,376 cub 3. A trench was excavated on the b foot 20 Mil. liner was installed over the subsequence.	c yards of impacted soil from the location to confor the liner installation. The yards of impacted soil volundaries of the closed discoundaries of the closed discoundaries.	om the former of tinue the excav- ne impacted are vas transported	drilling pit was vation as per B ea measured to I to CRI for dis nd on Seotem	excavated a SLM reguiren o be 370-fee posal. ber 20, 2011	and transported to L nents. The impacte at long by 240-feet v	ea Land, LLC.  d area of the location was wide to a depth ranging fro	om
4. Native soil from Lea Land, LLC at The soil lift was contoured to match	nd a local borrow pit was t	ransported to t	he location and	d placed ove	er the top of the line	r in a minimum of 3-feet.	
The soil lift was contoured to match 5. The location will be seeded using				ver the locat	ion for eros <del>ion cont</del>	CEIVED	
			`		F	FEB <b>15</b> 2012	
14. I hereby certify that the foregoing is t	rue and correct. Name (Printe	ed/Typed)			NMO	OCD ARTESIA	
Roy White			Title Product	tion Forema			
Signature (ac)	Tub	-	Date 11/15/2	2011			
7 30 0	THIS SPACE	FOR FEDE	RAL OR S	TATE OF	FICE USE		
Approved by	1 01	)			<u> </u>	2 7-1	2
Conditions of approval, if any, are attached			Title ertify	SEA-	4	Date 2-7-1	
that the applicant holds legal or equitable tentitle the applicant to conduct operations	title to those rights in the subje			CFO			

Title 18 U S C Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false,



November 15, 2011

# **Bureau of Land Management**

620 E. Green Street Carlsbad, NM 88220

AMARILLO 92! North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622

Attention: Ms. Terry Gregston

**Environmental Protection Specialist** 

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

Remediation and Closure Report

Devon Energy Corporation Millman SE Federal No. 1 API# 30-015-30376

AUSTIN 911 West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512.989.3428 Fax 512.989.3487

Dear Ms. Gregston,

Subject:

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658 Devon Energy Corporation has contracted Talon/LPE (Talon) to perform soil assessment and closure activities for the drilling pit located at the Millman SE Federal No. 1. The incident description, soil assessment, remediation activities and closure request are submitted herein.

#### MIDLAND 290! State Hwy 349 Midland, Texas 79706 Phone 432.522.2!33 Fax 432.522.2!80

# Background Information

SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191 The Millman SE Federal No. 1 is located approximately thirty-two (32) miles southeast of Artesia, New Mexico. The legal location for the site is Section 33, Township 19 South and Range 29 East in Eddy County, New Mexico. More Specifically the latitude and longitude are 32.61818 North and -104.08634 West.

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232 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 Reeves-Gypsum land complex soils with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S34-T19S-R29E. The depth to ground water in the area is reported to range from 60-feet to 115-feet deep with an average depth to water of 95' below ground surface (bgs). A copy of the referenced groundwater data obtained from the New Mexico State database is attached as Appendix I.

ENVIRONMENTAL CONSULTING

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

ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

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

Toll Free: 866.742.0742 www.talonlpe.com The former drilling pit area was originally excavated to a depth of approximately 2-feet below land surface for this project. A total of 3,014.01 cubic yards of soil were excavated and transported to Lea Land, LLC for disposal at that time. Closure was then requested from the BLM. At BLM's request, the excavated drilling pit was subsequently divided into 14 grid sections, each 50-feet long by 50-feet wide. Samples from each grid section were obtained and sent to Cardinal Laboratories for analysis of total chlorides. Following a meeting with the client and BLM, a revised work plan was generated and submitted for approval.

On June 8, 2011 Ms. Terry Gregston of the BLM Carlsbad field office approved the revised work plan with stipulations. The referenced BLM stipulations and grid section site map of the drilling pit provided by the BLM are presented in Appendix II.

# **Groundwater Sampling Results**

On March 27, 2011 the Skylight Cave was entered and duplicate water samples were obtained for analytical testing and quality control purposes at the BLM's direction. The samples were transported the same day to Cardinal Laboratories for analysis of volatile organics (BTEX) per EPA Method 8021B; total Petroleum Hydrocarbons (TPH) per EPA Method 8015M; total dissolved solids (TDS) per Method 160.1; and total chlorides via Method SM 4500Cl-B. Complete copies of both lab reports, dated March 23, 2011, are attached hereto and are summarized in the following data table.

Sample Location	<b>BTEX</b>	<b>Chlorides</b>	<u>TDS</u>	<u>TPH</u> (mg/L)
Skylight Cave 1	ND*	1,550	5,570	ND
Skylight Cave 2	ND	1,600	5,520	ND

<sup>\*</sup>Not Detected within laboratory method detection limits

It is not unusual for shallow or perched groundwater in this area to have elevated indications of Total Dissolved Solids and Chlorides.

#### **Actions Taken**

In June, 2011 Talon personnel mobilized to the site again to continue excavation on the closed drilling pit, per the BLM stipulations.

Multiple sampling and field testing events for chlorides using field titration methods were conducted during the excavation process. The excavation was expanded and then re-sampled several times based on the field testing results and BLM site inspections.

A buried trash pit was encountered in the sidewall of the excavation adjacent to the well location. At BLM's direction and upon client approval, the trash pit was excavated and transported to CRI, Inc. for disposal.

On August 18, 2011 Talon personnel mobilized to the site again for closure soil sampling activities on the sidewalls and bottom of the excavation per BLM requirements. Grab soil samples were collected and submitted for laboratory analysis. Based upon laboratory results and BLM direction, additional excavation was required.

On September 1, 2011 Talon personnel returned to the site for additional soil sampling activities on the remaining sidewalls of the excavation per BLM requirements. Grab soil samples were collected utilizing a hand auger and submitted for laboratory analysis.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for Total Chlorides via Method SM4500Cl-B. The complete laboratory reports are attached as Appendix III.

# **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

Sample date: August 18, 2011

Location	Chlorides
North-side wall East-side wall	128 mg/kg 32
North-side wall South-side wall	272 208
North-side wall	10,000
North-side wall	2,960
North-side wall West-side wall East-side wall Bottom	608 64 1,390 928
	North-side wall East-side wall North-side wall North-side wall North-side wall North-side wall West-side wall East-side wall

<u>Sample</u>	Location	Chlorides
B-1	North-side wall East-side wall South-side wall Bottom	4,960 mg/kg 9,100 14,400 304
B-2	West-side wall East-side wall South-side wall Bottom	304 8,100 432 160
B-5	East-side wall West-side wall Bottom	80 160 432
C-2	East-side wall South-side wall Bottom	1,070 3,800 1,570
C-3	South-side wall North-side wall Bottom	2,680 288 96
C-4	North-side wall South-side wall Bottom	144 64 80
C-5	South-side wall West-side wall Bottom	64 144 160

Sample date: September 1, 2011

<u>Sample</u>	Location	Chlorides
A-3	North-side wall	1,250
A-4	North-side wall	656
A-5	East-side wall	144

<u>Sample</u>	<u>Location</u>	Chlorides
B-1	North-side wall East-side wall South-side wall	96 mg/kg <16 <16
B-2	East-side wall	208
C-2	East-side wall South-side wall Bottom	208 112 80
C-3	South-side wall	96

# **Remedial Actions**

In June, 2011 Talon personnel mobilized to the site to resume excavation of the closed drilling pit and downsizing of the location as previously described. The impacted soil was excavated to a depth of 3-7 feet below land surface in specific grid sections and transported to CRI for disposal in stages based upon resulting laboratory results. An approximate total of 11,376 cubic yards of contaminated soil were excavated and transported to CRI for disposal. The excavated area was left open until an approval from the BLM was granted to begin installation of the liner.

On September 20, 2011 Talon personnel began installing a composite 20 millimeter liner over the excavated area. The edges of the liner were keyed a minimum of 3-feet deep into a trench excavated at the boundaries of the former drilling pit.

The excavated area was subsequently backfilled to grade using new material backhauled from Lea Land, LLC and with material obtained from a local pit. This new fill material was placed over the top of the 20 millimeter liner in a 3-foot soil lift. The soil lift was contoured to match the surrounding terrain and wind rows were installed over location for erosion control. The location will be seeded using the recommended seed mixture for the area (BLM #4).

### Conclusions and Recommendations

- Ground water in the project vicinity is approximately 95-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater and the remedial actions as described herein, it is unlikely that the impacts identified from this former drilling pit will pose a threat to groundwater.

- The impacted area has been excavated to varying depths of 3-feet to 7-feet deep below land surface.
- The results of the sampling and analytical program were approved by the BLM prior to completion of field activities.
- Based upon the results of the sampling and analytical program, all chemical parameters tested for are reported to be less than their respective Recommended Remedial Action Levels (RRALs).

Therefore, on behalf of Devon Energy Corporation, we respectfully request that no further actions be required and that closure with respect to this release be granted.

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

Mike Stubblefield

mike Sullation!

Project Manager

David J. Adkins

District Manager

# APPENDIX I GROUNDWATER DATA



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are	1=NW	2=NE	3=SW	4=SE)
---------------	------	------	------	-------

		(quarte	rs a	re s	sma	llest	to larg	est)	(NAD83 UTM	1 in meters)		(In feet)	_
POD Number basin	< - 1 - 1	County	- 1	10.	Q 4	القة وَيُّوارِيهِ	Tws	Rng	X		-33 - 54 3	Depth W WaterCo	
CP 00646	PRO	ED	1	1	4	07	198	29E	583155	3615552*	199		
CP 00681	PRO	ED	1	1	3	34	198	29E	587230	3609127*			
CP 00703	PRO	ED		4	1	36	198	29E	590945	3609441*	200	115	85
CP 00739	PRO	ED	3	4	4	35	198	29E	590046	3608532*	200	110	90
CP 00741	PRO	ED	1	3	2	34	198	29E	588030	3609533*	230	60	170
CP 00820	STK	LE		2	4	13	198	29E	591713	3613870*	120		
CP 00821	STK	LE		4	4	25	198	29E	591743	3610248*	120		
								•	Avera	age Depth to	o Water:	95 fe	et
1										Minimun	n Depth:	60 fe	et
•								•					et

**Record Count: 7** 

PLSS Search:

Township: 19S Range: 29E

Maximum Depth: 115 feet

# APPENDIX II BLM STIPULATION OF APPROVAL BLM GRID SECTION SITE MAP

# **David Adkins**

From:

Kuhnert, Nathan [Nathan.Kuhnert@dvn.com]

Sent:

Friday, June 10, 2011 3:15 PM

To:

David Adkins

Subject:

Fw: Millman 33 Federal #1.

Attachments:

Millman SE Federal 1-BLM pit closure schematics-060711.pdf

Hi David,

Let's try to find some time early next week to talk.

Thanks,

Nathan

From: tgregsto@blm.gov [mailto:tgregsto@blm.gov]

Sent: Wednesday, June 08, 2011 02:32 PM

To: Kuhnert, Nathan

Subject: RE: Millman 33 Federal #1.

Mr. Kuhnert,

Attached you will find a pdf file with two schematics:

- 1. The first shows the sample points and the minimum depth at which chloride levels drop below 1,000ppm OR a depth of 4 feet and chloride levels remain elevated (whichever comes first).
- 2. Based on the above, a second schematic shows areas that need to be excavated to 0', 1', 2', or 4'. At 4', several of the areas remain too elevated in chlorides to close. In these areas, a dotted outline shows where a liner/clay cap installation should be placed.

As you can see from the submitted drawings, 3 areas do not need any further excavation to reach closure. 2 areas require only a 1 foot excavation. 3 areas require a 2 foot excavation. 6 areas require a 4 foot excavation and a liner installation.

The areas outlined on the schematics are "general". More surgical excavation on all the above areas can be conducted out in the field by running field titrations as the work progresses. Each area may be smaller or larger depending upon the field titrations and when those titrations indicate that areas of higher or lower chloride levels have been reached on a horizontal and vertical level. Sidewalls in the 4' foot excavation area should all be at 1,000ppm or less. Sidewalls in the 2' excavation area should be 1,000ppm or less. And so on.

The goal is to get all soils in the 0, 1, and 2 foot excavation areas down to closure levels or below and to extend the sidewalls of the 4 foot excavation area out until closure levels are reached in the side walls. At this point, the only area that should be 'hot' is the bottom of the 4 foot excavation. And that is what we want capped. It would probably be wise to extend the excavation at the 4 foot level out beyond the 4' foot "hot area" to be capped--in effect, you will want to make your cap slightly larger than the area to be capped so that the hottest areas are well covered by the cap. The BLM will need witnessed confirmation sampling of the sidewalls sent to a third party lab prior to closure of the excavation.

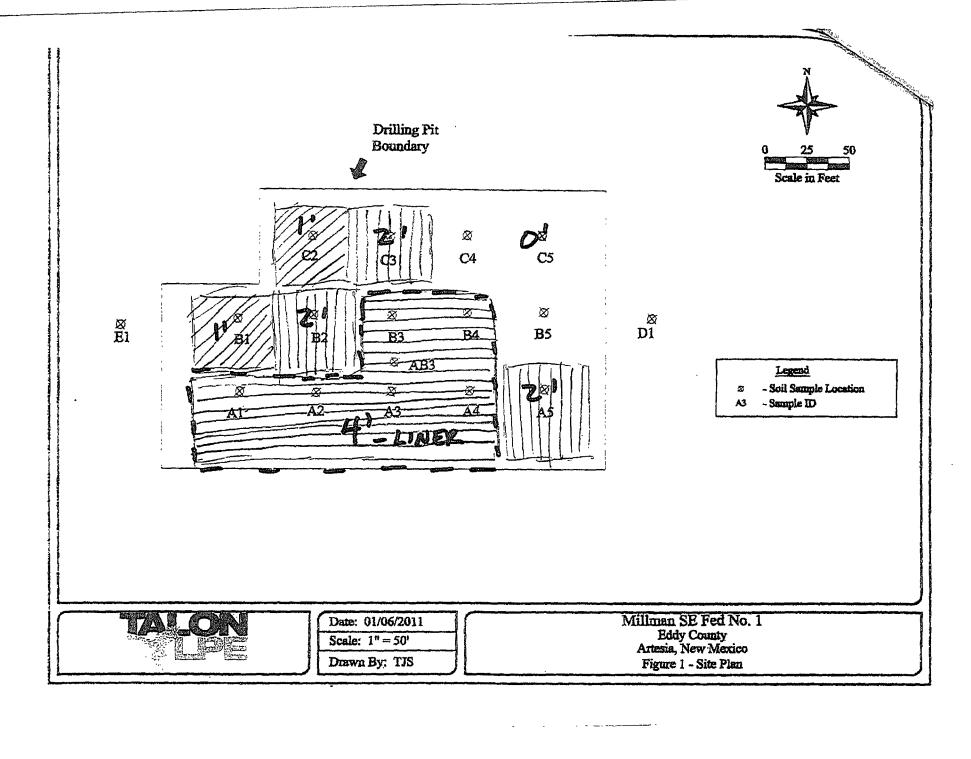
In this particular case, the liner should be slightly domed and the edges of the liner "keyed in". In other words, the edges of the liner installation should be trenched deeper than the surface of the cap so that the liner/clay cap is "tucked in" on all sides. The deeper you can make these side trenches, the better--because it prevents horizontal migration of moisture from flowing under the cap. The 'doming' of the cap enables moisture to migrate off the cap, rather than sitting and pooling atop it. In the event that a liner failure is developed (a crack or a root punction of the liner), the doming ensures that the majority of the function of the cap is still intact. (As opposed to creating a water tight "pool" or sump area with the liner installation in which any crack or puncture of the liner would then serve as a "drain" of the water pool/sump directly into the contaminated soils underneath...which we most definately do not want.)

Those are our thought processes so far on this site. If you have any questions, feel free to give me a call on my cell.

Terry Gregston Environmental Protection Specialist Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220 Office (575) 234-5958 Cell (575) 361-2635 Fax (575) 234-5927

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Scale in Feet

Drilling Pit Boundary

Ø



≅ E1 0' (47

i	C2	C3	C4	C5	
	1'(c)(928)	2'(c) (672)	0'(c)(208)	0'(c)(608)	
<b>&amp;</b>	<b>&amp;</b>	<b>&amp;</b>	<b>⊗</b>	Ø	
BI	<b>B</b> 2	B3	, B4	B5	ļ
11(c)(304	B2 2'(°)(20	18) 4'(c)(1,10°	0 (c) (768)	51(c)(240)	. 0'
	•	4'(6) (768)	9-(1,200)	•	}
Ø	Ø	Ø	₩	<b>8</b>	•
A1-	A2	A3	A4	A5	İ
4'(8,800)	4'(2,920)	4' (1,680)	4'(14,400)	7 (160)	;
1 6000	1 (2)		. ,	C (1-2)	

Legend

a - Soil Sample Location
A3 - Sample ID

Date: 01/06/2011

Scale: 1" = 50'

Drawn By: TJS

Millman SE Fed No. 1 Eddy County Artesia, New Mexico

Figure 1 - Site Plan

# APPENDIX III LABORATORY RESULTS



March 23, 2011

**CAROLYN MOORES** 

BLM

620 E. Greene

Carlsbad, NM 88220

RE: DEVON-MILLMAN

Enclosed are the results of analyses for samples received by the laboratory on 03/17/11 13:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benze

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.

Hope S. Moreno

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,

Hope Moreno

Inorganic Technical Director

BLM

**CAROLYN MOORES** 620 E. Greene Carlsbad NM, 88220 Fax To: None

Received:

03/17/2011

Reported:

03/23/2011

Project Name:

**DEVON-MILLMAN** NONE GIVEN

Project Number: Project Location:

**NOT GIVEN** 

Sampling Date:

03/17/2011

Sampling Type:

Water

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: SKYLIGHT CAVE 1 (H100514-01)

BTEX 8260B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.001	0.001	03/18/2011	ND	0.023	114	0.0200	0.308	
Toluene*	<0.001	0.001	03/18/2011	ND	0.020	99.0	0.0200	2.25	
Ethylbenzene*	<0.001	0.001	03/18/2011	ND	0.020	100	0.0200	1.25	
Total Xylenes*	<0.003	0.003	03/18/2011	ND	0.062	103	0.0600	1.79	
Surrogate: Dibromofluoromethane	114 9	% 80-120							
Surrogate: Toluene-d8	85.5	% 80-120							
Surrogate: 4-Bromofluorobenzene	94.5	% 80-120							
Chloride, SM4500Cl-B	mg/	L .	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1550	4.00	03/18/2011	ND	104	104	100	0.00	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TDS	5570	5.00	03/22/2011	ND				4.60	
TPH 8015M	mg/	L	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<1.00	1.00	03/18/2011	ND	25.0	100	25.0	1.87	
DRO >C10-C28	<1.00	1.00	03/18/2011	ND	26.7	107	25.0	0.221	
Surrogate: 1-Chlorooctane	97.3	% 70-130							
Surrogate: 1-Chlorooctadecane	101 9	% 70-130							

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Libbility and Demagest. Cartrain's tability and client's conductor remarkly for any dain arising, whether based in contract or text, shall be finized to the amount paid by deat for realyses. All claims, including those for regispence and any other clause whistowers shall be deemed wheth unless nade in writing and near-held within thirty (20) days after completion of the applicable service. In no event shall cardievel be table for indexental or consequential damages, including, without limitation, besides literarytims, less of use, or loss of profits incurred by dearl, its subscients, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daims bessed upon any of the above stated reasons or otherwise. Results relate only to the samples Monthful above. This report shall not be reproduced except in full with writing approval of Cardinal taborerantes.

Abpe S. Moreno

Hope Moreno, Inorganic Technical Director



#### **Notes and Definitions**

S-LOW Low surrogate recovery confirmed as a matrix effect by a second analysis.

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

Cardinal Laboratories

\*=Accredited Analyte

PLESSE NOTE: Usbrilly and Dumages. Cardina's fability and clearly excludes remarkly for any dain arising, whether based in contract or text, shall be billed to the amount paid by clear for analyses. All dains, including those for neglegance and any other cause whichever shall be ferred valued unless made in writing and resolved by Cardina within Utify (33) days either campetion of the applicable sention. In no event shall Cardinal be label for indepted or consequential demands, which is finished. Inhibition, business interruptions, loss of use or loss of profess formed by Cardinal, effects, is a substitute, affiliation or accessors arising out of or indicated to the performance of the services between by Cardinal, regardless of whether such dains be based upon any of the above stated reasons or otherwise. Results relate only to the samples Kentified above. This report shall not be reproduced except in full with writine approved of Cardinal Expenditures.

Lope S. Moreno

Hope Moreno, Inorganic Technical Director



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: D ADKINS  Address: 409 W Texas And Company:  City: Article NM State: Zip: Attn:  Phone #: 575.441.4935 Fax #:  Project #: Project Owner: City:  Project Name: Deven - Milman State: Zip:  Project Location: Phone #:	Company Namo	" /DLON /	IPK	<u> </u>				٠.	Bi	LL TO	ξ.						ANA	LYSIS	S RE	QUE	ST			
Address: 40.8 W. TRY & State: 21p: Attm: Prince & 575. 441. 49.35 Fax #: Address: Project Name: Deven - Mulman Project Owner: Sampler Name: Care by Mosces + Action Block on Prince # Fax #: PRILLEGO SHI - Sample I.D.  Sampler Name: Sample I.D.  Sampler Name: Sample I.D.  Sampler Name: Skylight Care I. G. 7 X. 3 July 10.33 3 3 1 1 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1	Project Manage	"_ D. ADK	CIN'S	_				P.O.																
City: Attack NM State: 2/e: Attack NM State: 2/e: Attack NM State: 2/e: Attack NM State: 2/e: Address: 2/e: Attack NM State: 2/e: Address: 2/e	Address: 4	109 W.TR	Was A	<u>vē</u>				Com	pany:										1					
Project Name:  Deven - Milliam - State	City: A	thin NM	State:	Zip:			~ 7	Attn	:									1	1		1 1		1	
Project Name:  Deven - Null man  Project Loadin: Sampler Name:  Care lyn Mocres + Acron Bookbon For By	Phone #: 575	.441.4838	Fax #:	-	•	_		Addı	ross:		-							)		1			1	
Project Location: Sample I.D.	Project#:			r:	-			City:	;		-	~~~					ļ	1	ļ	ļ	}	}	ļ	
Project Location: Sample I.D.	Project Name:	Devon - M	üllman			-		State	<del></del>	Zip:							1						-	
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2\_ March 23, 2011

**CAROLYN MOORES** 

BLM

620 E. Greene

Carlsbad, NM 88220

RE: DEVON-MILLMAN

Enclosed are the results of analyses for samples received by the laboratory on 03/17/11 13:05.

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.

Lope S. Moreno

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,

Hope Moreno

Inorganic Technical Director



BLM **CAROLYN MOORES** 620 E. Greene Carlsbad NM, 88220 Fax To: None

Received:

03/17/2011

Reported:

03/23/2011

Sampling Date:

03/17/2011

Sampling Type:

Water

Project Name:

**DEVON-MILLMAN** 

Sampling Condition:

\*\* (See Notes)

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

# Sample ID: SKYLIGHT CAVE 2 (H100515-01)

BTEX 8260B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.001	0.001	03/18/2011	ND	0.023	114	0.0200	0.308	
Toluene*	<0.001	0.001	03/18/2011	ND	0.020	99.0	0.0200	2,25	
Ethylbenzene*	< 0.001	0.001	03/18/2011	ND	0.020	100	0.0200	1.25	
Total Xylenes*	<0.003	0.003	03/18/2011	ND	0.062	103	0.0600	1.79	
Surrogate: Dibromofluoromethane	115	% 80-120							
Surrogate: Toluene-d8	85.9	% 80-120							
Surrogate: 4-Bromofluorobenzene	93.3	% 80-120							
Chioride, SM4500CI-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1600	4.00	03/18/2011	ND	104	104	100	0.00	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TDS	5520 -	5.00	03/22/2011	ND				4.60	
TPH 8015M	mg/	L	` Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<1.00	1.00	03/18/2011	ND	25.0	100	25.0	1.87	
DRO >C10-C28	<1.00	1.00	03/18/2011	ND	26.7	107	25.0	0.221	
Surrogate: 1-Chlorooctane	116	% 70-130							100000
Surrogate: 1-Chlorooctadecane	124 9	% 70-130							

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Libbility and Datasjee. Confords lability and client's endurine remody for any client studence remody for any client studence and any other case whitesomer shall be feeted whiled unless make in writing and received within DBM; (33) days efter completion of the applicable service. In no went shall be feeted while unless make in writing and received by Conford within DBM; (33) days efter completion of the applicable service. In no went shall be feeted be feet for independent of consequential distinges, bothers industrie, business interruptors, loss of use, or loss of profits incurred by clearly by substituting a statistic or accessors entiring out of or related to the professionar of the service between the client of the service between the client of the control of the control of the control of the control of the service between the client of the control of the contro

Lope S. Moreno

Hope Moreno, Inorganic Technical Director



#### **Notes and Definitions**

S-LOW Low surrogate recovery confirmed as a matrix effect by a second analysis,

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

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Usally and Damages. Contrains fability and clern's exclusive remotify for any dains entering, whicher based in contract or text, shall be included to the amount paid by direct for analyses. All claims, including those for neglegories and any other cross whitespeer shall be deemed without unless made in writing and reschool by Central within thisty. (30) days after completely of the applicable service. In no event shall Contract be table for included or consequential Garages, beather, beather, beather than the professional professional contracts. In the performance of the services of whether such claims is beatted upon eny of the above stated rescore or coloration. Each reside only to the surprise beather the improvision of contract to the contract of the services.

Abpe S. Moreno

Hope Moreno, Inorganic Technical Director



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

Company Name	" BLM				·····	T.	BI	LL TO						ANAL	YSIS	RE	QUE	ŝT	 	
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city: Carls	back	State: N /	Zip	: 8	8220	Att	n:													
Phone #:		Fax #:				Add	iross:													1 !
Project #:		Project Owner	r:			City	<u></u>													
Project Name:						Sta	to:	Zip:		]										
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Sampler Name:	Carolyn	Moores + Aa	800	<u>ئ</u>	tockton	Fax														}
POR LIB LIBE ONLY					MATRIX	-7 <i></i> -	PRESERV.	SAMP	ING	~						[				
Lab I.D.	Samp		S (G)RAB OR (C)OIMP	ONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	отнек	ACID/BASE ICE / COOL OTHER		1	BTE	TPH	5	,							
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† Cardinal	cannot accopt ver	bal changes. Please	fax	writ	ten changes to	505-	393-2476 												ĺ	Pa



August 22, 2011

MIKE STUBBLEFIELD

**TALON LPE** 

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MILLMAN 33 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/19/11 12:44.

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.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

08/19/2011

Reported: Project Name: 08/22/2011 MILLMAN 33 FEDERAL #1

Project Number:

700794.002.01

Project Location:

SEC.33-19S-29E

Sampling Date:

08/18/2011

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: S - 1 A - 1 NORTHSIDE WALL (H101763-01)

Chloride, SM4500Ci-B	mg	/kg	Analyze	d By: HM	·				······································
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/22/2011	ND	416	104	400	7.41	
Sample ID: S - 2 A - 1 EA		·-							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/22/2011	ND	416	104	400	7.41	
Sample ID: S - 3 B - 1 NO	RTHSIDE WA	LL (H101763-	03)						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	4960	16.0	08/22/2011	ND	416	104	400	7.41	
Sample ID: S - 4 B - 1 EA	STSIDE WALI	. (H101763-04	) ′						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	9100	16.0	08/22/2011	ND	416	104	400	7.41	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Usbfity and Damages. Contrails lability and dient's endance remarky for any datas asking, whether based in contract or text, shell be larted to the amount paid by client for analyses. All chims, beduing those for negligence and any other cause wholescent shall be deemed without criticals made in writing and reached by Deviced within thiny (36) days effor completion of the explicable service. In no event shall Confined be Eatle for incidental or consequential demands, without incident, business interruptions, loss of use, or loss of ports incurred by Contrail, requirement of such asking the sound cause in all with writine supprised of contrail Laboratories.

Celey D. Keine



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

Received:

08/19/2011

Reported: Project Name:

08/22/2011 MILLMAN 33 FEDERAL #1

Project Number:

700794.002.01

Project Location:

SEC.33-19S-29E

Sampling Date:

08/18/2011

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: S - 5 B - 1 SOUTHSIDE WALL (H101763-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	08/22/2011	ND	416	104	400	7.41	
Sample ID: S - 6 B - 1 BO	TTOM (H101)	763-06) 🗸							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/22/2011	ND	416	104	400	7.41	
Sample ID: S - 7 B - 2 WE	STSIDE WAL	L (H101763-07	7) <sup>~</sup>						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/22/2011	ND	416	104	400	7.41	
Sample ID: S - 8 B - 2 EAS	STSIDE WALL	L (H101763-08	s) <						
Sample ID: S - 8 B - 2 EAS Chloride, SM4500CI-B	STSIDE WALL	•	•	d By: HM					
•		•	•	d By: HM Method Blank	BS	% Recovery	True Value QC	RPD .	. Qualifier
Chloride, SM4500CI-B Analyte	mg	/kg	Analyze		BS 416	% Recovery	True Value QC 400	RPD 7.41	. Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result	/kg Reporting Umit 16.0	Analyzed 08/22/2011	Method Blank		•	•		. Qualifier
Chloride, SM4500CI-B	Result	Reporting Umit 16.0  ALL (H101763-	Analyzed 08/22/2011	Method Blank		•	•		· Qualifier
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#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Ubbling and Demapses. Confine's lability and client's conclusive remedy for any darm aroung, whether based in concept or bot, shall be instead to the amount paid by client for analysis. All clients, including those for negligence and any other cause whetherer shall be deemed white unless made in whiting and received by Confisial whith thirty (10) days other completion of the applicable service. In no ment shall Confine be table for incidental or consequential damapse, including, whithout limitation, business intermytions, loss of use, or loss of prefix incomed by client, as a stabilities or successions arising out of methods to the performance of the services however by Confinely, reported or of whiting approached Confinel Both of the performance or or the stable states include only to the samples identified above. This report that company in this show states or consequential between the confinel between the confinel above states arising and confinel between the confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel above states arising and confinel ar

Celecy D. Keine



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

Received:

08/19/2011

08/22/2011

Reported: Project Name:

MILLMAN 33 FEDERAL #1

Project Number: Project Location: 700794.002.01

SEC.33-19S-29E

Sampling Date:

08/18/2011

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: S - 10 B - 2 BOTTOM (H101763-10)

Chioride, 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	08/22/2011	ND	448	112	400	0.00	
Sample ID: S - 11 A - 2 N	ORTHSIDE V	VALL (H10176:	3-11) ~						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM	<del></del>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: S - 12 A - 2 S	OUTHSIDE W	/ALL (H101763	3-12) ~						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: S - 13 C - 2 B	ОТТОМ (Н10:	1763-13) ~							ь.
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: S - 14 C - 2 E	ASTSIDE WA	LL (H101763-:	14) 🗸						
Chloride, SM4500Cl-B	mg	-	-	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	08/22/2011	ND	448	112	400	0.00	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE MOTE: Liability and Danages. Cardina's babbility and clerifs exclusive remety for any cleim arising, whether based in contract or bort, shall be termed to the amount paid by deet for analyses. All claims, including those for negligence and any other cause whetherem shall be deemed wavend unless reade in writing and resolved by Cardinal within thirty (20) days after completely service. In no event shall Currical be Edite for incidental or consequential damages, without invitation, business intermediately the contract of the southern than the performance of the southern based upon any of the above stated reasons or otherwise. Results relate only in the samples Memory above that which expressed except in full with written approval of Cardinal Editoratories.

Celey D. Keena

Celey D. Keene, Lab Director/Quality Manager



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

Received:

08/19/2011

Reported:

08/22/2011

Project Name:

MILLMAN 33 FEDERAL #1

Project Number: Project Location:

Analyte

700794.002.01

SEC.33-19S-29E

Sampling Date:

08/18/2011

Sampling Type:

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S - 15 C - 2 SOUTHSIDE WALL (H101763-15)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Result

3800

Reporting Limit

16.0

Analyzed 08/22/2011 Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S - 16 C - 3 SOUTHSIDE WALL (H101763-16)

Chloride, SM4500Cl-B

mg/kg Analyzed By: HM

Analyte

Chloride

Reporting Limit

Analyzed

Method Blank

8\$

% Recovery

True Value QC

Qualifier

Chloride 2680 16.0 08/22/2011 ND 448 112 400 0.00

Sample ID: S - 17 C - 3 BOTTOM (H101763-17)

Chloride, SM4500Cl-8

mg/kg

Analyzed By; HM Method Blank

BS

RPD

Oualifier

Analyte Result Reporting Limit RPD Analyzed True Value QC Chloride 96.0 16.0 08/22/2011 ND 448 112

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

16.0

% Recovery

400

0.00

Sample ID: S - 18 C - 3 NORTHSIDE WALL (H101763-18)

Chloride

Chloride

Analyte

Result

288

10000

Analyzed

08/22/2011

Analyzed By: HM

ND

BS 448

112

True Value QC

Qualifier

Oualifier

RPD

Sample ID: S - 19 A - 3 NORTHSIDE WALL (H101763-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

ND

Method Blank

448

% Recovery

112

400

· 400

0.00

0.00

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD

08/22/2011

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REASE NOTE: Uability and Damages. Central's hability and dient's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by clean for analyses. All claims, including those for negligence and any other cause infectioners and to deemed without unless made in writing and received by Central within thirty (30) days efter completion of the appriative source. In no event shall Central be liable for incidental or consequential damages, who who is this took before the property of the above stated research or chemical parties for any of the above stated research or chemical parties for the property of the above stated research or chemical parties only to the sumples (sorthal above. This report of all real to reproduced except in full with written approved of Condinal laboratories.

Celey & Keine



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

Received:

Chiarida CMAEGOCI-R

08/19/2011

Sampling Date:

08/18/2011

Reported:

08/22/2011

Sampling Type:

Soll

Project Name:

MILLMAN 33 FEDERAL #1

Sampling Condition:

\*\* (See Notes)

Project Number:

700794.002.01

Project Location:

SEC,33-19S-29E

Sample Received By:

Jodi Henson

# Sample ID: S - 20 C - 4 SOUTHSIDE WALL (H101763-20)

Chloride, SM4500Ci-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: S - 21 C - 4 E	•	•			,				
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: S - 22 C - 4 I		•	•						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
				14.15 Lpl (		0/ 0	T 141 00	RPD	Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	KPD	Quanner
Analyte <b>Chloride</b>	Result 144	Reporting Limit	Analyzed 08/22/2011	ND NEWOOD BIANK	448	% Recovery	400	0.00	Quantier
Chloride	144	16.0	08/22/2011			•	•		Quainer
Chloride Sample ID: S - 23 A - 4 I	144 NORTHSIDE W	16.0	08/22/2011			•	•		Quanter
Chloride Sample ID: S - 23 A - 4 I	144 NORTHSIDE W	16.0 /ALL (H101763	08/22/2011	NĐ		•	•		Qualifier
Chloride  Sample ID: S - 23 A - 4 I Chloride, SM4500Ct-8  Analyte	144 NORTHSIDE W	16.0 /ALL (H101763 /kg	08/22/2011 -23) Analyze	ND d By: HM	448	112	400	0.00	
Chloride  Sample ID: S - 23 A - 4 f Chloride, SM4500Ct-8  Analyte Chloride	144 NORTHSIDE W mg Result 2960	16.0  /ALL (H101763 //kg  Reporting Limit 16.0	08/22/2011  -23) Analyzed  08/22/2011	ND  d By: HM  Method Blank	448 BS	112	400 True Value QC	0.00	
Chloride Sample ID: S - 23 A - 4 I Chloride, SM4500Ct-8	144 NORTHSIDE W mg Result 2960	16.0  /ALL (H101763 //kg  Reporting Limit 16.0	08/22/2011  -23)  Analyzed  08/22/2011	ND  d By: HM  Method Blank	448 BS	112	400 True Value QC	0.00	
Chloride  Sample ID: S - 23 A - 4 P Chloride, SM4500Ct-8  Analyte Chloride  Sample ID: S - 24 C - 5 5	144 NORTHSIDE W mg Result 2960	16.0  /ALL (H101763 //kg  Reporting Limit 16.0  /ALL (H101763	08/22/2011  -23)  Analyzed  08/22/2011	ND d By: HM Method Blank ND	448 BS	112	400 True Value QC	0.00	

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PLEASE MOTE: Usbrilly and Demogras. Contrain's lability and chart's contains remonly for any dain arising, whether based in contract or text, shall be traited to the amount paid by dent for analyses. All dains, including those for negotypene and any other cause whetheres shall be deemed without criticis mode in writing and necked by Cartual within thirty (DI) days after completion of the applicable senter. In no exect shall Cardinal be table for hiddental or consequential damages, without initiation, business information, business information, issue of use, or loss of profits from the day of the shall resist on the contract of the sentence of the services hereunder by Cardinal, regardings of whether such claim is because the loss of the standard promotion of control Cardinal Eulopeanies.

Celey D. Keine



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

Received:

08/19/2011

Reported:

08/22/2011

Project Name: Project Number: MILLMAN 33 FEDERAL #1

Reporting Limit

16.0

700794.002.01

Sampling Date:

08/18/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes) Jodi Henson

Project Location:

SEC.33-19S-29E

Sample ID; S - 25 C - 5 BOTTOM (H101763-25)

Chloride, SM4500CI-B
Analyte

Chloride

mg/kg

Result

160

Analyzed By: HM

Analyzed

08/22/2011

Method Blank

ND

BS 448 % Recovery 112

True Value OC 400

RPD

3.64

Qualifier

Sample ID: S - 26 C - 5 WESTSIDE WALL (H101763-26) ✓

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/22/2011	ND	448	112	400	3.64	

# Sample ID: S - 27 A - 5 BOTTOM (H101763-27)

Chioride, SM4300CI-B	HIY	/ kg	Апазухе	u by: mm					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/22/2011	ND	448	112	400	3.64	

# Sample ID: S - 28 A - 5 WESTSIDE WALL (H101763-28)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2011	ND	448	112	400	3.64	

# Sample ID: S - 29 A - 5 NORTHSIDE WALL (H101763-29)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/22/2011	ND	448	112	400	3.64	

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PLEASE NOTE: Liability and Dameges. Confinel's liability and clients exchange remedy for any dain arising, whether based in contract or tort, shall be limited to the amount paid by dist for evalyates. An olders, including those for nephysione and any other cause whateverse shall be deemed watered unless made in witting and necehold by Contract within thirty (30) days after completion of the approaches sentice. In no event shall Contract the based for indicated or consequential demands of the particular contract the sentices have for indicated or whether such demis based upon any of the above stated masons or otherwise. Results relate only to the semples Kurthfeel above. This report shall not be reproduced except in full with nation approval of Carding (above puries

Celey D. Keine



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

Received:

08/19/2011

Reported:

08/22/2011

Project Name: Project Number: MILLMAN 33 FEDERAL #1

700794.002.01

Project Location:

SEC.33-19S-29E

Sampling Date:

ing Date:

08/18/2011

Soil

Sampling Type: Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: S - 30 A - 5 EASTSIDE WALL (H101763-30) ✓

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/22/2011	ND	448	112	400	3.64	

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REASE NOTE: Ubbity and Durages. Cardinals liability and disn'ts exclusive remoty for any dain which, whether based in contract or but, she't be limited to the amount paid by dient for analyses. All dains, including those for nephysics and any discussive state on the extractive shall be desired without unless made in whiting and recovered by Cardinal within thirty (20) days after completed on the applicable service. In no event shall Cardinal be table for including, whoch finishing, which finishing, but the applicable service. In no event shall Cardinal be table for including close, the cardinal shall be table for including the same and the same an

Celey D. Keene



#### **Notes and Definitions**

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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PLECS NOTE: Liability and Demages. Cardinal's lebility and clearls endurent rementy for any cleim arising, whether beard in content or turt, shall be limited to the amount paid by chert for analyses. All claims, including those for regispense and any other cases whether shall be deemed whiteir chies made in whiting and received by Cardinal whitin tithy (30) days after complation of the applicable senter. In no event shall Cardinal be liable for indicated in consequential demages, whould include the health of the performance of the services herearder by Cardinal, regarded on the beautiful point in the standard point of the latest of the claims. Beautiful cardinal point in the samples therefore demonstrated by the performance of the services herearder by Cardinal, regarded on the beautiful point with which expected of correct laborations.

Celen D. Keine

# Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Nameger: Prive Stuttlefield  Address: 408 Last Fast Auc.  Chy: Artesia State: M. Zip: \$8200  Address: 700 744, 022.41 Fast: FOS-244, 2555  Project Name: Project Owner: Desca Facety Gry. City:  Project Name: Milliana 33 Federal Mal  Project Location: rec. 73-145-786  Sampler Name: Mille State: 2500  Eath 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: Malica State: 2500  Lah 1.D. Sampler I.D. Bolly Malica State: M	(575) 393-2326 FA: company Mamo: Talon / LPE			real re-reserve	**************	,	<u>-</u>	F.L F.L.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			eriant Admirates	1	AMA	LYSIS	SRE	QUE	ST			
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hone \$: 575-441.254 Fax \$: 575-441.254 Address:  roject \$: 760.744.002.01 Project Owner: Devo Frequency Gry. City:  roject Name: Millown 33 Federal No.   State: Zip:  Project Location: Fec. 33-135-23c  Implie L			Zip:	2821	0												· ·				
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•		CHAIN-OF-CUSTODY AND ANALYSIS REC	QUEST
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		•	3 - 3
Company Namo: Talon / LPE	SILC-TO	ANALYSIS REQUEST	<del></del>
Project Manager: Mike Stubblefield	P.O. #:		
Address: 408 WOT TEXAL AVE.	Company: Talan/C	PE	
City: Artissia Stato:NM Zip: 28210	Atin:		
Phono #: 575-441.7254 Fax #: 575-746-8565	Address:		
Project \$: 700 794.002.01 Project Owner: Deugn Energy Gr	, city:		{ }
Project Name: Millman 33 Federal Not	State: Zip:		
Project Location: sec. 33-195-296	Phone #:		
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Page 12 of 12



August 31, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MILLMAN 33 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/25/11 13:00.

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.

Celeg & Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

08/25/2011

Reported:

08/31/2011

Project Name:

MILLMAN 33 FEDERAL #1

Project Number:

700794.002.01

Project Location:

SEC.33-T19S-R29E

Sampling Date:

08/18/2011

Soil

Sampling Type: Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

# Sample ID: S-31 B-5 EASTSIDE WALL (H101803-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/26/2011	ND	432	108	400	7.69	
Sample ID: S-32 B-5 Wi	STSIDE WALL	. (H101803-02							
Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/26/2011	ND	432	108	400	7.69	
Sample ID: S-33 B-5 BO	TTOM (H1018	03-03)							
Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/26/2011	ND	432	108	400	7.69	

Cardinal Laboratories \*=Accredited Analyte

REASE MOTE. Liability and Dumages. Confirms leightly and clern's exclusive remedy for any darm aroung, whether based in contract or but, shell be limited to the emount poid by dient for analyses. All cleims, including those for negligence and any other cause whethere shall be deemed waited unless reade in writing and received by Confirm within thirty. (30) cert after completion of the applicable service. In no event shall Confirm be inside for including, without firstition, befores between loss of use, or loss of profits housted by dient, its audiodicase, efficiency or successions aroung out of or related to the performance of the services between by Confirmal, negardees of whether such chilm is based upon any of the above stated reasons or otherwise. Results relate only to the samples bloom that in the importance except in MI ent within approval of contract Laboratories.

Celey D. Keine



#### **Notes and Definitions**

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Dumbjets. Cardinal's leability and clearly and clearly and clearly and clearly and clearly and clearly and clearly and clearly and clearly and reached by Cardinal whitey (30) clear in a specially sample. In no event shall Cardinal be table for inoclearly or consequential clearly, whose impairs to implicit, business inflation, business inflation, business in the performance of the services herearder by Cardinal, reportions of physical points in the performance of the services herearder by Cardinal, reportions of physical points in the performance of the services herearder by Cardinal, reportions of physical points in the performance of the services herearder by Cardinal, reportions of the services herearder by

Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Talon / LPE													3				ANA	LYSI	SRE	QUE	ST			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sampler - UPS - Bus - Other:

Cool Intact
Yes Yes



September 07, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MILLMAN 33 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 09/02/11 16:50.

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:

Haloacetic Acids (HAA-5) Method EPA 552.2 Method EPA 524.2 Total Trihalomethanes (TTHM) Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

09/02/2011

Reported:

09/07/2011

Project Name: Project Number: Project Location: MILLMAN 33 FEDERAL #1 700794.002.01

SEC.33-T19S-R29E

Sampling Date:

08/31/2011

Soil

Sampling Type:

\*\* (See Notes)

Sampling Condition: Sample Received By:

Jodi Henson

# Sample ID: S-1 B1 EASTSIDE WALL (H101884-01)

: HM				
ethod Blank BS	% Recovery	True Value QC	RPD	Qualifier
ND 416	104	400	3.77	
: нм				
ethod Blank BS	% Recovery	True Value QC	RPD	Qualifier
ND 416	104	400	3.77	
: CK				
ethod Blank BS	% Recovery	True Value QC	RPD	Qualifier
ND 416	104	400	3.77	
		•	,	,
" CK				

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/06/2011	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

RESCE NOTE. Libitity and Damages. Cardinals lability and client's cacture remoty for any client erising, whether based in content or tart, shall be limited to the amount paid by client for analyses. All clients, including those far negligence and any other cause whitescent shall be deered whited unless made in writing and resched by Cardinal which thicky (36) clays often completion of the applicable senter. In no event shall Cardinal be labble for including, which is initiation, but not of or related to the performance of the sources harvarder by Cardinal, reperfess of whether such claims because upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced county in his limit writing approach of Cardinal Libotropies.

Celey D. Keene



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

Received:

Chloride

09/02/2011

Sampling Date:

08/31/2011

Reported:

09/07/2011

Sampling Type:

416

Soil

Project Name:

MILLMAN 33 FEDERAL #1

104

400

3.77

\*\* (See Notes)

Project Number:

700794.002.01

Sampling Condition:

Project Location:

SEC.33-T19S-R29E

Sample Received By:

Jodi Henson

# Sample ID: S-5 C2 BOTTOM (H101884-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By; CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/06/2011	ND	416	104	400	3.77	
Sample ID: S-6 C2 EAST	SIDE WALL (F	1101884-06) ~							
Chloride, SM4500Cl-B	SM4500Cl-B mg/kg		Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

# Sample ID: S-7 C2 SOUTHSIDE WALL (H101884-07)

208

16.0

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK		····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/06/2011	ND	416	104	400	3.77	

09/06/2011

# Sample ID: S-8 C3 SOUTHSIDE WALL (H101884-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/06/2011	ND	416	104	400	3.77	

# Sample ID: S-9 A5 EASTSIDE WALL (H101884-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/06/2011	ND	416	104	400	3.77	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demaples. Contine's Residence network point for any days and identify endusive network for any days whether based in contract or lost, shall be limited to the amount point by devict for analysis. All cleans, including those for neglective and any other cause whethere shall be desired without unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lettle for included or consequential demaples, including, without limitation, business interruptions, loss of last, or loss of last, or loss of ports included by direct, its subsideries, affectes or successors arising out of or related to the particulative of the services hereunder by Cardinal, regardless of whether such

Celey D. Keine



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

Received: Reported: 09/02/2011

09/07/2011

Project Name: Project Number: MILLMAN 33 FEDERAL #1 700794.002.01

Project Location:

Analyte

SEC,33-T19S-R29E

Sampling Date:

88

Sampling Type:

09/01/2011

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S-10 A3 NORTHSIDE WALL (H101884-10)

Chloride, SM4500CI-B

Analyzed By: CK

Analyzed

Method Blank

% Recovery

True Value QC

400

RPD

RPD

3.77

Qualifier

Chloride

Chloride

Result 1250

Result

656

Reporting Limit 16.0

Reporting Limit

16.0

09/06/2011

ND

416 104 400

3.77

Sample ID: S-11 A4 NORTHSIDE WALL (H101884-11)

Chloride, SM4500CI-B Analyte

mg/kg

Analyzed By: CK

Analyzed

09/06/2011

Method Blank

ND

BS 416 % Recovery

104

True Value QC

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demands. Cardinal's liability and dient's endurant remoty for any clear arising, whether based in contract or last, shall be liability and Demands. Cardinal's liability and dient's endurant remoty for any clear arising, whether based in contract or last, shall be deemed worked unless made in withing and received by Cardinal within thirty (33) days after completion of the appropriate service. In no event shall be deemed worked unless made in withing the standard within thirty (33) days after completion of the appropriate service. In no event shall be deemed worked unless made in white or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits frounded by dient, its authorities, artifaction or successors arising out of or neighbor to the performance of the survices hereunded by Cardinal, negations of whether such damages are the contract and contract arising out of or neighbor to the performance of the survices hereunded by Cardinal, negations of whether such damages are the contract and contract arising out of or neighbor to the performance of the survices hereunded by Cardinal, negations of whether such damages, with written approved of Cardinal Liaboratories.

Celeg D. Krene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



#### **Notes and Definitions**

NO 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

Cardinal Laboratories \*=Accredited Analyte

PLEASE AOTE: Uability and Danayes. Contrain's lability and client's exclusive remethy for any client artisting, whether based in contract or but, shall be timed to the amount pied by client. At admit, including those for negligative and any other contract accordance whatshower shall be desired netween unless made in writing and necessed by Contral within 1001y (20) days after completion of the applicable service. In no event shall Contral to lability for including, whome improved the applicable service in no event shall Contral to lability for including any of the state service in the service service in the service service in the service in the service service in the service in the service in the service service in the service in the service in the service in the service in the service in the service in the service in the service in the service in the service in the service in the service in the service in

Celey D. Kune



# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 1-2 Company Name: Talos/LPE BILL TO ANALYSIS REQUEST Project Manager: Mike Stubblefield P.O. #: Company: Talen 408 WIST TOTAL AUC Address: State: W.M. Zip: 98270 City: Artesia Attn: Fax #: 575.746-8905 Phone #: 575-441-7254 Address: 200294,007.01 Project Owner: Doug Every ling. City: Project #: Project Name: Millman 33 Federal No 1 State: Zip: Project Location: SCC. 33-T195- R 25E Phone #: mile 17-Hetield Sampler Name: Fax #: MATRIX PRESERV SAMPLING chlorides FOR LAB USE ONLY (G)RAB OR (C)OMP ACIDIBASE: ICE / COOL OTHER : Sample I.D. Lab I.D. HIDISSH DATE TIME 15-1 Bleatiside Wall 8/31/2019:27 8 Z 5-Z BI southside WALL 8/31/2011 9:34A 3 5.3 Bl norTheide wall 3/31/2011 9:31A S-4 B2 east side NEIL 8/31/2011 9:490 5.5 Ch nottom 8/31/201/5:54A 65-6 CZ eastside wall 8/21/201 9:59 17 8/3//en 10:12 A 5.7 CZ Southside Wall 5.8 (3 Southside wall 8/31/201 10:03A Q 5-9 A 5 castside wall 3 /31 km 9:23 A 10 5.10 A3 Northside Wall Relinguished By: Received By: Phone Result: □ No Add'l Phone #: Add'l Fax #: □ Yes Fax Result: Prive: Sully Relinquished By: REMARKS: Received By Delivered By: (Circle One) CHECKED BY: Cool Intact
Yes A Yes
No No (Initials)) Sampler - UPS - Bus - Ather.)

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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-24																							7-	·Z
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