

June 27, 2011

Subject:

RECEIVED

JUL 07 2011

NMOCD ARTESIA

Mr. Mike Bratcher

NMOCD District 2

1301 West Grand Avenue
Artesia, NM 88210

AMARILLO 92! North Bivins Amarillo. Texas 79!07 Phone 806 467.0607 Fax 806.467.0622

6.467.0622 ARTESIA

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

AUSTIN

9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 5I2.989.3428 Fax 5I2.989.3487

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393 4658

MIDLAND

2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432 522.2180

SAN ANTONIO

II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918 742 0871 Fax 918.382.0232

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Soil Assessment and Remediation Work Plan

Quantum Resources Management, LLC

Artesia Unit No. 32

API # 30-015-01764 – 2RP-769

Dear Mr. Bratcher,

Quantum Resources Management, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Artesia Unit No. 32 release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

April 15, 2011

Background Information

The Artesia Unit No. 32 is located approximately sixteen (16) miles southeast of Artesia, New Mexico. The legal location for the site is Section 36, Township 17 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.78729 North and -104.13741 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services the soil in this area is made up of Simona-Bippus land complex soils with 0 to 5 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 dense caliche layers. 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-T17S-R28E. The ground water in Section 34 is reported to be 53' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

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'

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

On April 15, 2011 the injection line west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated, repaired and placed back into service. Fifteen to twenty (15-20) barrels of produced water were released. No fluids were recovered. The release is located on the pipeline right of way and on the lease road running north of the injection line ending at the Artesia Unit No. 31 location. The impacted area along the pipeline right of way was measured in a northward direction to be approximately 229-feet long, 2-3 feet wide, then eastward another 270-feet long by 2-feet wide. The impacted area along the lease road was measured to be approximately 998-feet long by 2-feet wide, terminating in a pooling area at the Artesia Unit No. 31.

The visually impacted soil at the release point was immediately excavated and taken to a NMOCD approved disposal facility. The excavated area measured approximately 60-feet long by 40-feet wide at a depth of 1.5' bgs at initial impacted area.

Actions Taken

On April 27, 2011 Talon/LPE mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a backhoe. The soil sample locations S-1 thru S-7 were collected from within the impacted areas from 0-8 feet deep. Refusal was encountered at 8-feet deep, with the backhoe.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis of chlorides using method SM4500CL-B. All analytical testing was performed on a standard turn-around basis. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

	S-1		S-2		S-3	S-4		
Feet	Chlorides(mg/kg)	Feet	Chlorides(mg/kg)	Feet	Chlorides(mg/kg)	Feet	Chlorides(mg/kg)	
0'	10000	0'	4600	0'	3600	0'	9100	
1'	14800	1'	96	1'	6400	1'	1920	
2'	14600	2'	32	2'	1490	2'	5100	
3'	5300	3'	32	3'	*	3'	8400	
4'	64	4'	32	4'		4'	4880	
5'	32	5'	48	5'		5'	5360	
6'	144	6'	48	6'		6'	5200	
7'	112	7'	208	7'		7'		
8'	192	8'	352	8'		8'		

	S-5		S-6	S-7		
Feet	Chlorides(mg/kg)	Feet	Chlorides(mg/kg)	Feet	Chlorides(mg/kg)	
0'	<16	0'	11800	0'	26800	
1'_	<16	1'	2240	1'	9200	
2'	64	2'	128	2'	14400	
3'_	80	3'	32	3'	13200	
4'	32	4'		4'	2800	
5'		5'		5'	64	
6'		6'		6'	352	

^{*--} Not Tested

Summary and Conclusion

- Groundwater in the project vicinity is greater than 50-feet below land surface per the New Mexico State Engineer Database.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of the chloride release have been documented to range from 1-feet to 6-feet deep throughout the impacted area.
- A dense hard rock formation was encountered at 8' feet below land surface.

Proposed Remedial Actions

- The impacted soil from this release will be excavated from 1-4 feet deep as dictated by the laboratory data. The excavated soil will be transported to a NMOCD approved solid waste disposal facility for disposal.
- The area adjacent to sample locations S-2 and S-6 will be excavated to 1-foot below land surface. Sample location S-3 will be excavated to a depth of 2-feet below land surface, and the area near S-1 excavated to a depth of 3-feet. Sample locations S-4 and S-7 will be excavated to 4-feet deep. No excavation activities will be undertaken near sample location S-5.
- Soil samples will be collected and field tested for chlorides from the side walls of the excavated areas. Upon completion of excavation activities, confirmation samples will be submitted to Cardinal Laboratories for analysis of chlorides using method SM4500CL-B.
- A 20 Mil liner will then be installed into the bottom of the excavated areas located in the vicinity of S-4 and S-7 where the remaining chloride impacts exceed 1000 mg/kg at 4-feet deep.

- The excavated area will be backfilled to grade using new material transported from a local borrow pit.
- A final report will be provided to the NMOCD Artesia Office utilizing Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

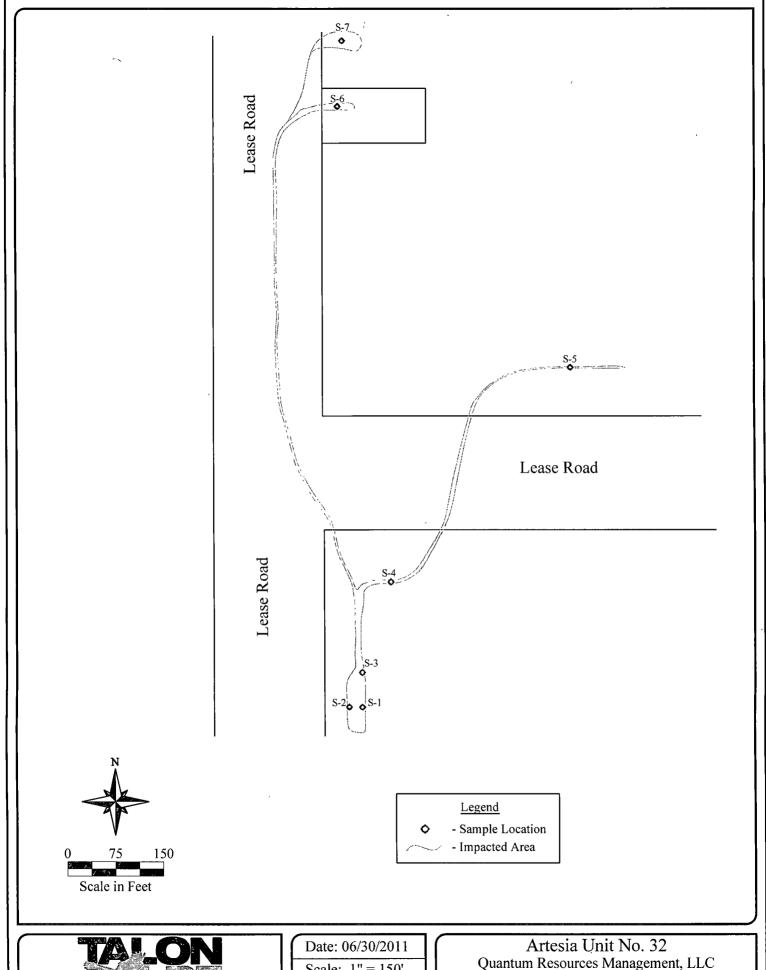
Mike Stubblefield

Project Manager

David J. Adkins

District Manager

SITE MAP





Scale: 1" = 150' Drawn By: TJS Artesia Unit No. 32
Quantum Resources Management, LLC
Eddy County, New Mexico
Attachment 1 - Site Plan w/Sample Locations

APPENDIX I GROUNDWATER DATA INITIAL C-141



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

QQQ Depth Depth Water **POD Number** basin Use County 64 16 4 Sec Tws Ring Y Distance Well WaterColumn L 07643 DOM 578979 3628574* 53 feet

Average Depth to Water:

Minimum Depth: 53 feet

Maximum Depth: 53 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 579187

Northing (Y): 3627794

Radius: 5000

*UTM location was derived from PLSS - see Help

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
Submit 2 Copie
District Offic
with R

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

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

Name of Company Quantum Resources Management, LLC Address 1905 West Sears Ave., Artesia, New Mexico 88210 Telephone No. 575-513-0230 Facility Name Artesia Unit No. 32 Facility Type WIW Surface Owner State Mineral Owner State Lease No.							OPERATOR Initial Report Final F						ıl Report	
Facility Name Artesia Unit No. 32 Facility Type WIW														
Surface Owner State					w Mexico 8821				30					
Location of Release Section Township Range Feet from the North/South Line Feet from the Sast/West Line South South	Facility Nan	ne Artesia	Unit No. 32				Facility Typ	e WIW						
Unit Letter M 36 T17S Range T17S Range R28E 990' North/South Line FSL	Surface Own	ner State			Mineral O	wner S	tate		Lease N	Lease No.				
Unit Letter M 36 T17S Range T17S Range R28E 990' North/South Line FSL					LOCA	TIOI	N OF REI	LEASE						
Latitude 32.78729 Longitude 104.13741 NATURE OF RELEASE Type of Release Produced Water Source of Release Water Injection line Was Immediate Notice Given? Was Immediate Notice Given? Was a Watercourse Reached? Was a Watercourse Reached? Was a Watercourse Reached? Was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.	Unit Letter	Section	Township					Feet from the	East/West Line					
Type of Release Produced Water Type of Release Produced Water Volume of Release 15 – 20 BBLS Volume Recovered -0- Date and Hour of Occurrence 04/15/2011 12:00 pm Was Immediate Notice Given? Yes No Not Required By Whom? Garrett Newton Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.	M	36	T17S	R28E	990'	FSL		330'	FWL	EDDY				
Type of Release Produced Water Source of Release Water Injection line Date and Hour of Occurrence 04/15/2011 12:00 pm Was Immediate Notice Given? Wes No Not Required By Whom? Garrett Newton Was a Watercourse Reached? Yes No Tif YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.													ļ	
Type of Release Produced Water Source of Release Water Injection line Date and Hour of Occurrence 04/15/2011 12:00 pm Was Immediate Notice Given? Was Immediate Notice Given? Yes No Not Required NMOCD/Mike Bratcher By Whom? Garrett Newton Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.	<u> </u>			Lati	tude <u>32.78729</u>		Longitude	104.13741						
Source of Release Water Injection line Date and Hour of Occurrence 04/15/2011 12:00 pm Was Immediate Notice Given? Yes No Not Required Date and Hour of Discovery same If YES, To Whom? NMOCD/Mike Bratcher By Whom? Garrett Newton Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.					NAT	URE	OF REL	EASE						
Was Immediate Notice Given? Was Immediate Notice Given? Was Immediate Notice Given? Was a Watercourse Reached? Was a Watercourse Reached? If YES, To Whom? NMOCD/Mike Bratcher Date and Hour 04/15/2011 12:30pm If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.							Volume of Release 15 – 20 BBLS Volume Recovered -0-							
Was Immediate Notice Given? Yes	Source of Rel	ease Water	Injection line	;			· ·							
By Whom? Garrett Newton Was a Watercourse Reached? Date and Hour 04/15/2011 12:30pm If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.	Was Immedia	te Notice C	Given?						Same					
Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The flow line located west of the Artesia Unit No. 32 was found to be leaking. The line was shut-in, excavated and repaired. The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.				Yes [No 🗌 Not Re	quired								
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The impacted soil was excavated and transported to and NMOCD solid waste disposal facility.	a 1:				-		· mm 1.			•				
									avated and repaired	l .				
Describe Area Affected and Cleanup Action Taken.*							1	Ž						
Describe Area Affected and Cleanup Action Taken.	Describe Area	A ffootod	and Cleanup	Action Tol	zon *		•							
The release was located on the pipeline right away west of the Artesia Unit No. 32. The area affected was located on the flow line right away	The release w	vas located	on the pipelir	ne right aw	vay west of the Ar	tesia Ur	nit No. 32. Th	e area affected wa	as located on the flo	ow line right	away			
and the lease road running north of the injection line. Talon/LPE has been contracted for the construction of a work plan and the correction			ng north of the	injection	line. Talon/LPE h	as been	contracted for	or the construction	n of a work plan an	d the correct	ion			
of the impacted area.	of the impacte	ed area.		1										
)				,										
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and	I hereby certif	Sy that the i	nformation ai	ven above	e is true and comp	lete to ti	he hest of my	knowledge and u	inderstand that nurs	suant to NM	OCD 1	ules s	and	
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger	regulations all	operators	are required t	o report ar	nd/or file certain r	elease n	otifications a	nd perform correc	ctive actions for rele	eases which	may e	ndang	ger	
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability														
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other	or the environ	perations n ment. In a	ave raned to a	idequatery CD accer	onvestigate and restance of a C-141	emediat renort d	e contaminati oes not reliev	on that pose a three the operator of	eat to ground water	r, surtace wa ompliance w	ner, nu vith an	unan i	neann er	
federal, state, or local laws and/or regulations.														
OIL CONSERVATION DIVISION			1 0	ne-				OIL CON	<u>SERVATION</u>	DIVISIO	<u>)N</u>			
Signature: Anuto FM	Signature:	Sound	カータ											
Approved by District Supervisor:					-		Approved by	District Supervis	or:					
Printed Name: Garrett Newton	Printed Name	: Garrett N	ewton				··· · · · · · · · · · · · · · · · · ·							
Title: Field Supervisor Approval Date: Expiration Date:	Title: Field Su	pervisor					Approval Date: Expiration Date:							
E-mail Address: gnewton@pvtnetworks.net Conditions of Approval: Attached	E-mail Addres	ss: gnewtoi	n@pvtnetwor	ks.net			Conditions o	f Approval:		Attached				
Date: 04/21/2011 Phone: 575-513-0230	Date: 04/21/2	2011		Phone	: 575-513-0230			<u> </u>						

APPENDIX II LABORATORY RESULTS



May 11, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARTESIA UNIT #32

Enclosed are the results of analyses for samples received by the laboratory on 05/06/11 11:04.

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. 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 (575) 745-8905

Fax To:

Received:

Chloride, SM4500Cl-B

05/06/2011

05/11/2011

Sampling Date:

04/27/2011

Reported:

ARTESIA UNIT #32

Sampling Type:

Project Name:

Sampling Condition:

** (See Notes)

Project Number:

701407.009.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SEC. 36-T17S.R28E

Sample ID: S - 1 0' (H100920-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 1 1' (H10	-					٠			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 1 2' (H10	00920-03)			•					
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 1 3' (H10	00920-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5300	16.0	05/09/2011	NĐ	432	108	400	0.00	

Analyzed By: HM

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE, Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses, All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

(575) 745-8905 Fax To:

Received:

05/06/2011

Sampling Date:

04/27/2011

Soil

True Value QC

400

Reported:

05/11/2011

% Recovery

108

Project Name:

ARTESIA UNIT #32

Sampling Type: Sampling Condition:

432

** (See Notes)

Project Number:

701407.009.01

Sample Received By:

Jodi Henson

RPD

0.00

Qualifier

Project Location:

SEC. 36-T17S.R28E

Sample ID: S - 1 4' (H100920-05)

Chloride,	SM4500Cl-B
-----------	------------

Chloride

m	a	•	

64.0

Analyzad Dyr UM

ND

05/09/2011

Cilionae, 3M4500CI-B		9/ kg	Analyzed by, 111-1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	

16.0

Sample ID: S - 1 5' (H100920-06)

Chloride, SM4500Cl-B	mg/kg Analyzed By: HM			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2011	ND	432	108	400	0.00	

Sample ID: S - 1 6' (H100920-07)

Chloride, SM4500Cl-B mg/kg		Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2011	ND	432	108	400	0.00	

Sample ID: S - 1 7' (H100920-08)

Chloride, SM4500Cl-B	mg,	mg/kg Analyzed I		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2011	ND	432	108	400	0.00	

Sample ID: S - 1 8' (H100920-09)

Chloride, SM4500CI-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/09/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE. Liability and Damages. Cardinal's liability and chent's exclusive remedy for any claim anang, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Celeg & Keene



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

(575) 745-8905 Fax To:

Received:

05/06/2011

Sampling Date:

04/27/2011

Reported:

05/11/2011

Sampling Type:

Soil

Project Name:

ARTESIA UNIT #32

Sampling Condition:

** (See Notes)

Project Number:

701407.009.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 36-T17S.R28E

Sample ID: S - 2 0' (H100920-10)

m		

Analyzed By: HM

		••••	ביי	,,= u = ,			
-		·					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank		

BS % Recovery True Value QC

RPD

0.00

RPD

Chloride

Chloride

Chloride

4600

Result

96.0

32.0

Result

32.0

05/09/2011

16.0

Reporting Limit

16.0

16.0

Reporting Limit

Reporting Limit

16.0

ND

ND

ND

432 108 400

Qualifier

Qualifier

Qualifier

Sample ID: S - 2 1' (H100920-11)

Chloride,	SM450	OCI-B

Analyte

mg/kg

Analyzed By: HM

Analyzed

05/09/2011

05/09/2011

Analyzed

Analyzed

05/09/2011

Method Blank

% Recovery 108

True Value QC 400 0.00

Sample ID: S - 2 '2 (H100920-12)

Chloride, SM4500Cl-B	mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	

Method Blank

BS 432

BS

432

% Recovery 108

True Value QC 400

RPD

0.00

Sample ID: S - 2 3' (H100920-13)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: HM

Method Blank BS

% Recovery

% Recovery

108

Qualifier

Chloride

16.0 05/09/2011 ND

Method Blank

ND

108

True Value QC 400

True Value QC

400

RPD

Chloride

Sample ID: S - 2 4' (H100920-14)

Chloride,	S	M4500Cl-B

mg/kg

Result

32.0

Analyzed By: HM

BS

432

432

0.00

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

Cardinal's liability and client's exclu Cardinal within thirty (30) days after completion of the applicable Including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Caley D. Keine



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

Received:

05/06/2011

Sampling Date:

04/27/2011

Reported:

Chloride, SM4500CI-B

05/11/2011

Sampling Type:

Soil

Project Name:

Sampling Condition:

** (See Notes)

ARTESIA UNIT #32 701407.009.01

Sample Received By:

Jodi Henson

Project Number: Project Location:

SEC. 36-T17S.R28E

mg/kg

Sample ID: S - 2 5' (H100920-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 2 6' (H1009	920-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 2 7' (H1009	920-17)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 2 8' (H100	920-18)								
Chloride, SM4500Cl-B	mg	ı/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/09/2011	ND	432	108	400	0.00	,
Sample ID: S - 3 0' (H100	920-19)								
Chloride, SM4500CI-B	mg	j/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	05/09/2011	ND	432	108	400	0.00	

Analyzed By: HM

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Received:

05/06/2011

Reported:

05/11/2011

Project Name: Project Number: ARTESIA UNIT #32 701407.009.01

Project Location:

SEC. 36-T17S.R28E

Sampling Date:

04/27/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: S - 3 1' (H100920-20)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	05/09/2011	ND	432	108	400	0.00	
								`	
Sample ID: S - 3 2' (H10	0920-21)								
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 3 3' (H10	0920-22)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM				_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 4 0' (H10	00920-23)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9100	16.0	05/09/2011	ND	432	108	400	0.00	
Sample ID: S - 4 1' (H10	00920-24)								
Chloride, SM4500CI-B	•	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	05/09/2011	ND	432	108	400	0.00	

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

Гах

Received: 05/06/2011 Reported: 05/11/2011

Project Name: ARTESIA UNIT #32
Project Number: 701407.009.01

Project Location: SEC. 36-T17S.R28E

Sampling Date:

04/27/2011

Sampling Type: Soil

** (See Notes)

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: S - 4 2' (H100920-25)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5100	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 4 3' (H1009	20-26)								
Chloride, SM4500Cl-B	mg.	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 4 4' (H1009 Chloride, SM4500Cl-B	-	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 4 5' (H1009	20-28)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 4 6' (H1009	20-29)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Chloride

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0.00

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432

108

400

05/10/2011

Celey D. Keene

5200

16.0



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

Fax To:

(575) 745-8905

Analyzed By: HM

Received:

Chloride, SM4500Cl-B

05/06/2011

Sampling Date:

04/27/2011

Reported:

05/11/2011

Sampling Type:

Project Name:

ARTESIA UNIT #32

Sampling Condition:

Soil ** (See Notes)

701407.009.01

Sample Received By:

Jodi Henson

Project Number: Project Location:

SEC. 36-T17S.R28E

mg/kg

Sample ID: S - 5 0' (H100920-30)

			<u></u>	<u> ·</u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 5 1' (H10	0920-31)								
Chloride, SM4500Cl-B	_	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 5 2' (H10	0920-32)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 5 3' (H10	0920-33)								
Chloride, SM4500CI-B	mg	ı/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 5 4' (H10	0920-34)								
Chloride, SM4500CI-B	mg	ı/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2011	ND	432	108	400	0.00	

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Received:

Chloride, SM4500Cl-B

05/06/2011

Sampling Date:

04/27/2011

Reported:

05/11/2011

Sampling Type:

Project Name:

ARTESIA UNIT #32

Sampling Condition:

** (See Notes)

Project Number:

701407.009.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SEC. 36-T17S.R28E

Sample ID: S - 6 0' (H100920-35)

emoriae, stristret s	97	7 113	74141720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 6 1' (H10	00920-36)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 6 2' (H10	00920-37)								
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 6 3' (H10	00920-38)								
Chloride, SM4500CI-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	05/10/2011	ND	432	108	400	0.00	
Sample ID: S - 7 0' (H10	00920-39)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	05/10/2011	ND	448	112	400	0.00	

Analyzed By: HM

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

Fax To: (575) 745-8905

Analyzed By: HM

Received:

Chloride, SM4500Cl-B

05/06/2011

Sampling Date:

04/27/2011

Reported:

05/11/2011

Sampling Type:

Project Name:

ARTESIA UNIT #32

Sampling Condition:

** (See Notes)

Project Number:

701407.009.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SEC. 36-T17S.R28E

Sample ID: S - 7 1' (H100920-40)

Chloride, 31:14300Cl-B	ilig	rkg	AndryEc	u by. 111-1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	05/10/2011	ND	448	112	400	0.00	
Sample ID: S - 7 2' (H10	0920-41)								
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	05/10/2011	ND	448	112	400	0.00	
							t		
Sample ID: S - 7 3' (H10	0920-42)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	05/10/2011	ND	448	112	400	0.00	
Sample ID: S - 7 4' (H10	0920-43)								
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	05/10/2011	ND	448	112	400	0.00	
Sample ID: S - 7 5' (H10	00920-44)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	. Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/10/2011	ND	448	112	400	0.00	

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

Received:

05/06/2011

Reported:

05/11/2011

Project Name: Project Number: ARTESIA UNIT #32 701407.009.01

Project Location:

SEC. 36-T17S.R28E

Sampling Date:

04/27/2011

Soil

Sampling Type: Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S - 7 6' (H100920-45)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/10/2011	ND	448	112	400	0.00	

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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

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Mariand, modes, (575) 393-2326 FAX (575)						1.5							
Company Nam	e: Talon/LPE		FRULL TO		Analysis request									
Project Wanage	er: Mike Stubble field		P.O. 18:				Francisco de la constitución de							
Address:	408 W. Texas AM		Company: Talen/41	or-										
City:		e: NM Zip: 88210	Attn:											
Phone #:	· 	: 505-746-8908	Address:											
Project #:	701407.006.01 Proje		City:											
Project Name:	Actoria vin No. 32	7	State: Zip:											
	on: 36. 7175. RZBF	•	Phone #:											
Sampler Name:			Fax #:]									
FOR LAB USE ONLY	1	MATRIX	PRESERV SAMPL	ING	c _l ct									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER. ACIDIBASE ICE / COOL OTHER.	TIME	107a L 616011des									
H100728-1	5-1 0'	G ,		9:061 1										
2	5.11'	G .	4/27/5001	9:221 V										
	5.1 2' 5.1 3' 5.1 4"	<u> </u>	1 Manles u	5:31 A V										
4_	5.1 3'	<u> </u>	1 4/20/2013	9:48/										
5	5.1 4"			10:074	_									
	5.15		1 1/20/2011	1										
	5.16'	Gr		10:20A V										
	5.17'		1 4/20/2011		-									
	5-18'	<u> </u>	५ प्रिश्चा		-		-							
	5 · 2 0 *	a remedy for pay claim auding wheth to used a con-		10:44 A /			Secretary of a text dispersion of the secretary of the se							
analyses. All claims arclada	ing Bornages Cardinars apparely and recite extraction of Biose for regiligence and any other cause white Cardinal be liable for incidental or consequental dama	pever shall be deemed walved unless made in writing	and received by Cardinal within 3D days afti	er completion of the applica	coble									
alfiliates or successors arisi	ing out of or related to the performance of services in	preunder by Cardinal, repartitess of whether such that		acons or otherwise										
Refinquished E	y: Date:	-3-1/ Received By:		Phone Result: Fax Result:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:								
mis. (5 Tull)	Tima:	9:00 sm		REMARKS:										
Relinquished B): Date Signal Si	Received By: 1	Work CHECKED BY											
Sampler - UPS	- Bus - Other:	Cool intact	(es (funithis)											
† Cardinal	cannot accept verbal changes	s. Please fax written changes t	505-393-2075				Page							

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 17

Company Name	(575) 393-2326 FAX (575) 393-24 "_ Talon/LPE		1	121	L.L. 1787	.TTTTCENUUM	THE PARTY	CONTRACTOR OF THE PERSON NAMED IN		ANAI	VSIS	DEC	UEST	•		(100 per 100 p
Project Manage	" Mike Stubble field			P.C. 3:	News - 15	-	1 7		1		1010		1020,			***************************************
Address:	408 W. Texas Ave			Company: 7	5/m ///					1		İ			i	
City:	Artecia State: NM		Attn:	<u> </u>						1						
Phone #:	598-441-9254 Fax#: 598		Address:								j					
Project #:	701407.009.01 Project Own		City:			1	-	İ		İ	İ		- }			
Project Name:	Actosia vait No. 32		1	State:	Zip:							1	İ]		
	n: sce. 36-T175. RZ8F			Phone #:								1				
Sampler Name:	mile welfield			Fax: #:	·							1				
FOR LAB USE ONLY			ATRIX	PRESERV	SAMPL	!NG	7	- 1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTE-MATER		OTHER ACID/BASE ICE / COOL OTHER.	-		al Caloride									
		(G)RAB # CONT GROUN WASTE:	OIL SLUDGE	ACID/BA ACID/BA ICE / CC OTHER	DATE	TIME	Total				ĺ					
HICO120-11	S.Z. 1	6	ا من ا ا من ا	2 × × 10		10:474	,									
	S.Z 2'	5		1		10:5ZA	r									
13	5.7 3	5			4/22/2011		v									
<u> </u>	5.2 3° 5.2 4'	<u> </u>	1 1		4/17/2011	10'.57A	<u> </u>									
	5·2 5'	۵	10	,	4/27/2011		•	-								
	5.26'	<u> </u>	<u> -</u> -	_	4/20/2311		<u> </u>		_	-						
17_	8.77	<u> </u>			4/27/2011							<u> </u>				
	S.2 8°	<u> G </u>	<u> </u>		4/20/0011		<u>-</u>					-		- -	-	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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