Work Order: 7052910 API 30-015-33684 Page Number: 1 of 2 523 T25S R26E,Eddy Co.,NM

# **Summary Report**

Dorsey Rogers Cimarex 207 S Mesa Carlsbad, NM, 88220

Report Date: May 30, 2007

Work Order: 7052910

Project Location: 523 T25S R26E,Eddy Co.,NM

Project Name: API 30-015-33684

Project Number: Wigeon 23 Fed R 26E Com #2

			Date	$\mathbf{Time}$	Date
Sample	Description	Matrix	Taken	$\mathbf{Taken}$	Received
125635	1-Inside Leg East 10'	soil	2007-05-23	14:00	2007-05-29
125636	2-Inside Leg West	soil	2007-05-23	14:30	2007-05-29
125637	3-Outside Leg East 10'	soil	2007-05-23	14:45	2007-05-29
125638	4-Outside Leg West 10'	soil	2007-05-23	15:00	2007-05-29
125639	5-Outside Leg North 10'	soil	2007-05-23	15:10	2007-05-29
125640	6-Background 0-6 Inch	soil	2007-05-23	15:25	2007-05-29

Sample: 125635 - 1-Inside Leg East 10'

Param	Flag	$\mathbf{Result}$	Units	RL
Chloride		316	mg/Kg	5.00

#### Sample: 125636 - 2-Inside Leg West

Param	$\mathbf{Flag}$	Result	Units	RL
Chloride		205	mg/Kg	5.00

## Sample: 125637 - 3-Outside Leg East 10'

Param	$\operatorname{Flag}$	Result	Units	RL
Chloride		224	mg/Kg	5.00

#### Sample: 125638 - 4-Outside Leg West 10'

Param	Flag	Result	Units	RL
Chloride	•	259	m mg/Kg	5.00

Report Date: May 30, 2007 Wigeon 23 Fed R 26E Com #2

Work Order: 7052910 API 30-015-33684 Page Number: 2 of 2 523 T25S R26E,Eddy Co.,NM

Sample: 125639 - 5-Outside Leg North 10'

Param	Flag	Result	Units	RL
Chloride		253	mg/Kg	5.00

Sample: 125640 - 6-Background 0-6 Inch

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	5.00



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E-Mail: lab@traceanalysis.com

# **Analytical and Quality Control Report**

**Dorsey Rogers** Cimarex 207 S Mesa Carlsbad, NM, 88220

Report Date: May 30, 2007

Work Order: 7052910 

Project Location: 523 T25S R26E,Eddy Co.,NM

Project Name: API 30-015-33684

Project Number: Wigeon 23 Fed R 26E Com #2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	rine	Date
Sample	Description	Matrix	Taken	Taken	Received
125635	1-Inside Leg East 10'	soil	2007-05-23	14:00	2007-05-29
125636	2-Inside Leg West	soil	2007-05-23	14:30	2007-05-29
125637	3-Outside Leg East 10'	soil	2007-05-23	14:45	2007-05-29
125638	4-Outside Leg West 10'	soil	2007-05-23	15:00	2007-05-29
125639	5-Outside Leg North 10'	soil	2007-05-23	15:10	2007-05-29
125640	6-Background 0-6 Inch	soil	2007-05-23	15:25	2007-05-29

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

#### Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

# Case Narrative

Samples for project API 30-015-33684 were received by TraceAnalysis, Inc. on 2007-05-29 and assigned to work order 7052910. Samples for work order 7052910 were received intact at a temperature of 6 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Chloride (Titration)	SM 4500-Cl B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7052910 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 30, 2007 Wigeon 23 Fed R 26E Com #2 Work Order: 7052910 API 30-015-33684

Page Number: 3 of 5 523 T25S R26E,Eddy Co.,NM

# **Analytical Report**

Sample:	125635	1-Incide	Leg	East	10'
Sample:	120000 -	· 1-1HSIGE	Tiek	Last	TO.

Analysis: Chloride (Titration)

QC Batch: 37626 Prep Batch: 32601

Analytical Method:

SM 4500-Cl B Date Analyzed: 2007-05-29 2007-05-29 Sample Preparation:

Prep Method: N/A Analyzed By: JS Prepared By:

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		316	mg/Kg	20	5.00

#### Sample: 125636 - 2-Inside Leg West

Analysis: Chloride (Titration) QC Batch: 37626 32601 Prep Batch:

Chloride

Prep Batch:

Chloride

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2007-05-29 2007-05-29

Prep Method: N/A Analyzed By: JSJSPrepared By:

Parameter Flag

RL	
Result	
205	

Units Dilution mg/Kg 10

RL

5.00

#### Sample: 125637 - 3-Outside Leg East 10'

Analysis: Chloride (Titration) QC Batch:

32601

32601

Analytical Method: Date Analyzed:

SM 4500-Cl B 2007-05-29

Units

mg/Kg

Prep Method: N/A Analyzed By: JSPrepared By: JS

Flag Parameter Result

Sample Preparation: 2007-05-29 RL

Dilution RL10 5.00

## Sample: 125638 - 4-Outside Leg West 10'

Analysis: Chloride (Titration) QC Batch: 37626

Prep Batch:

Chloride

Analytical Method: Date Analyzed:

259

224

SM 4500-Cl B 2007-05-29

Units

mg/Kg

Prep Method: N/A Analyzed By: JSPrepared By: JS

Parameter Flag Result

Sample Preparation: 2007-05-29 RL

Dilution RL10 5.00

#### Sample: 125639 - 5-Outside Leg North 10'

Analysis: Chloride (Titration) QC Batch: 37626 Prep Batch: 32601

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-05-29 Sample Preparation: 2007-05-29

Prep Method: N/A Analyzed By: JS Prepared By: JS

Report Date: May 30, 2007 Wigeon 23 Fed R 26E Com #2

37626

37626

Analysis:

QC Batch:

QC Batch:

Method Blank (1)

Chloride (Titration)

QC Batch: 37626

Work Order: 7052910 API 30-015-33684 Page Number: 4 of 5 523 T25S R26E,Eddy Co.,NM

Prep Method: N/A

Analyzed By: JS

Analyzed By: JS

Parameter	Flag	Result	Units	Dilution	RL
Chloride		253	m mg/Kg	10	5.00

Analytical Method: SM 4500-Cl B

2007-05-29

2007-05-29

Prep Batch:	32601	Sample Preparation	n: 2007-05-29	Prepared By:	JS
		$\mathrm{RL}$			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	RL
Chloride		<20.0	mg/Kg	4	5.00

Date Analyzed:

Prep Batch: 32601		QC Preparation: 2007-05-29		Prepared By:	JS
		$\mathrm{MDL}$			
Parameter	Flag	Result	${f Units}$		RL
Chloride		< 3.25	mg/Kg		5

Date Analyzed:

## Laboratory Control Spike (LCS-1)

QC Batch:	37626	Date Analyzed:	2007-05-29	Analyzed By:	$_{ m JS}$
Prep Batch:	32601	QC Preparation:	2007-05-29	Prepared By:	JS

	LCS			$_{ m Spike}$	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	100	mg/Kg	1	100	< 3.25	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$	RPD	Limit
Chloride	101	mg/Kg	1	100	< 3.25	101	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		/ · · ·		
Matrix	Spike	(MS-1)	Spiked Sample: 125	644

QC Batch:	37626	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32601	QC Preparation:	2007-05-29	Prepared By:	JS

continued ...

Report Date: May 30, 2007 Wigeon 23 Fed R 26E Com #2 Work Order: 7052910 API 30-015-33684 Page Number: 5 of 5 523 T25S R26E,Eddy Co.,NM

	- 7	
matrix	snikes	$continued \dots$

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	1	306	mg/Kg	4	400	104	50	84.6 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	2	306	mg/Kg	4	400	104	50	84.6 - 117	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Standard (ICV-1)

QC Batch: 37626

Date Analyzed: 2007-05-29

Analyzed By: JS

			ICVs	ICVs	ICVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-05-29

#### Standard (CCV-1)

QC Batch: 37626

Date Analyzed: 2007-05-29

Analyzed By: JS

			${ m CCVs} \ { m True}$	$\begin{array}{c} { m CCVs} \\ { m Found} \end{array}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2007-05-29

<sup>&</sup>lt;sup>1</sup>Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control. <sup>2</sup>Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

LAB Order ID #	705	29	10	
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# TraceAnalysis, Inc.

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6015 Harris Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260

Company Name: Phone #: 505-391-9685									ANALYSIS REQUEST																									
Address: (Street, City, Zip) PO Box 1856							Fax #: 505 - 31/-9687								(Circle or Specify Method No.)														1					
Contact Person: HUTCHINS 505-631-7700 CELL							E-mail: hutchins@leaso.net										(2)		Se Hg 6010B/200.	위													ndard	
Invoice to: (If different from above) CIM AREX - DORSEY						Y ROGERS									624	624	TX1005 / TX1005 Ext(C35)		4g 601(	b Se													m sta	
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Project Location (including state): FDDY Co., NM				1			Sam	pler	Sign	nature	7	1	tel			12 / 82	/ 826	5/ TX	2	8	Ba	S			8270C /	2017	809							differ
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