Work Order: 7030823

Page Number: 1 of 2

Summary Report

Allen Hodge

Report Date: March 8, 2007

P.O. Box 1856 Hobbs, NM, 88241

Margueroft | Penn Feel 42

Project Number: Cimarex Marquardt #2

Work Order: 7030823

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
118348	Inside North 7'	soil	2007-03-07	11:50	2007-03-08
118349	Inside South 7'	soil	2007-03-07	11:40	2007-03-08
118350	Outer West 7'	soil	2007-03-07	12:00	2007-03-08
118351	Outer North 7'	soil	2007-03-07	10:35	2007-03-08
118352	Outer South 7'	soil	2007-03-07	12:12	2007-03-08
118353	Background	soil	2007-03-07	12:21	2007-03-08

Sample: 118348 - Inside North 7'

Param	Flag	Result	Units	RL
Chloride		140	mg/Kg	5.00

Sample: 118349 - Inside South 7'

Param	Flag	Result	Units	RL
Chloride		28.9	mg/Kg	5.00

Sample: 118350 - Outer West 7'

Param	Flag	Result	${f Units}$	RL
Chloride		< 50.0	mg/Kg	5.00

Sample: 118351 - Outer North 7'

Param	Flag	Result	Units	RL
Chloride		53.8	m mg/Kg	5.00

Sample: 118352 - Outer South 7'

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Work Order: 7030823

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Param	Flag	Result	Units	RL
Chloride		45.0	mg/Kg	5.00
Sample: 118353	- Background			
Param	Flag	Result	Units	RL
Chloride		40.2	mg/Kg	5.00



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Analytical and Quality Control Report

Allen Hodge Phoenix Environmental

P.O. Box 1856 Hobbs, NM, 88241 Report Date: March 8, 2007

Work Order: 7030823

Project Number: Cimarex Marquardt #2

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
118348	Inside North 7'	soil	2007-03-07	11:50	2007-03-08
118349	Inside South 7'	soil	2007-03-07	11:40	2007-03-08
118350	Outer West 7'	soil	2007-03-07	12:00	2007-03-08
118351	Outer North 7'	soil	2007-03-07	10:35	2007-03-08
118352	Outer South 7'	soil	2007-03-07	12:12	2007-03-08
118353	Background	soil	2007-03-07	12:21	2007-03-08

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 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Work Order: 7030823

Analytical Report

Analysis: Chloride (Titration)

QC Batch: 35392 Prep Batch: 30713 Analytical Method: SM 4500-Cl B Date Analyzed: 2007-03-08

2007-03-08

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

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RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		140	mg/Kg	20	5.00

Sample Preparation:

Sample: 118349 - Inside South 7'

Analysis: Chloride (Titration) QC Batch: 35392 Prep Batch: 30713

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-03-08 Sample Preparation: 2007-03-08

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

RL

Parameter	Flag	Result	${f Units}$	Dilution	RL
Chloride		28.9	mg/Kg	4	5.00

Sample: 118350 - Outer West 7'

Analysis: Chloride (Titration) QC Batch: 35392 Prep Batch: 30713

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-03-08 Sample Preparation: 2007-03-08

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

ВI

		1011			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		< 50.0	mg/Kg	10	5.00

Sample: 118351 - Outer North 7'

Analysis: Chloride (Titration) QC Batch: 35392 Prep Batch: 30713

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-03-08 Sample Preparation: 2007-03-08

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

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		53.8	mg/Kg	4	5.00

Sample: 118352 - Outer South 7'

Analysis: Chloride (Titration) QC Batch: 35392 Prep Batch: 30713

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-03-08 Sample Preparation: 2007-03-08

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

 $continued \dots$

Work Order: 7030823

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	771	_	RL		•.	т.		DI	
Parameter	Flag	R	esult	Un mg/l		Dı	lution		$\frac{\mathrm{RL}}{5.00}$
Chloride			45.0	<u>ng</u>		4		5.00	
Sample: 118	3353 - Backgrou	nd							
Analysis:	Chloride (Titratio	on)	Analytical Met				N/A		
QC Batch:	35392		Date Analyzed		07-03-08 07-03-08		Analyz		JS
Prep Batch:	30713		Sample Prepar		Prepar	ea By:	JS		
			RL						
Parameter	Flag	R	esult	Un		Di	lution		RL
Chloride			40.2	mg/l	Kg		4		5.00
Method Bla	nk (1) QC B	atch: 35392							
	35392		nto Analyzadi	2007-03-0	10		Anal	and Dan	JS
QC Batch: Prep Batch:	30713		ate Analyzed: C Preparation:	2007-03-0			yzed By: ared By:	JS	
r		~	•	200.00					
			MI	DL					
Parameter		Flag	Resi			Units			RL
Chloride			<3.	mg/Kg		5			
.		. Ga 4)				·			
Laboratory	Control Spike (l	LCS-1)			"				·
QC Batch:	35392	Da	ate Analyzed:	2007-03-0				yzed By:	JS
QC Batch:		Da	ate Analyzed: C Preparation:	2007-03-0 2007-03-0				yzed By: ared By:	JS JS
QC Batch:	35392	Da Q)8	Matr	Prepa	ared By:	JS
QC Batch: Prep Batch:	35392	Da				Matr. Resu	Prepa	ared By:	
QC Batch: Prep Batch: Param	35392	Da Qu LCS	C Preparation:	2007-03-0	08 Spike		Prepa ix lt Rec.	ared By: R Li	JS lec.
QC Batch: Prep Batch: Param Chloride	35392	LCS Result 99.4	C Preparation: Units mg/Kg	2007-03-0 Dil.	Spike Amount 100	Resu <3.2	Preparation in Rec. 5 99	ared By: R Li	JS lec. imit
QC Batch: Prep Batch: Param Chloride	35392 30713	LCS Result 99.4	C Preparation: Units mg/Kg	2007-03-0 Dil. 1 he spike ar	Spike Amount 100 nd spike dup	Resu <3.2	Preparation in Rec. 5 99	R Li	JS lec. imit
QC Batch: Prep Batch: Param Chloride Percent recove	35392 30713	LCS Result 99.4 e spike result. RP LCSD Result	Units mg/Kg D is based on t Units Dil.	2007-03-0 Dil.	Spike Amount 100	Resu <3.2	m Preparents ix $ m lt$ $ m Rec.$ $ m 5$ $ m 99$ $ m ult$. $ m Rec.$	ared By: R Li	JS tec. imit - 110
QC Batch: Prep Batch: Param Chloride Percent recove	35392 30713	LCS Result 99.4 e spike result. RP LCSD Result	Units mg/Kg D is based on t	Dil. 1 he spike ar	Spike Amount 100 nd spike dup Matrix	Resu <3.2 clicate res	m Preparents ix $ m lt$ $ m Rec.$ $ m 5$ $ m 99$ $ m ult$. $ m Rec.$	ared By: R Li	JS tec. imit - 110
QC Batch: Prep Batch: Param Chloride Percent recove	35392 30713	LCS Result 99.4 e spike result. RP LCSD Result 100 m	Units mg/Kg D is based on t Units mg/Kg D is based on t	Dil. 1 he spike ar Spike Amount 100	Spike Amount 100 and spike dup Matrix Result <3.25	Resu <3.2 clicate res Rec. 100	Prepared ix It	ared By: R Li 90	JS tec. imit - 110 RPD
QC Batch: Prep Batch: Param Chloride Percent recove Param Chloride Percent recove	35392 30713 ery is based on the	LCS Result 99.4 e spike result. RP LCSD Result 100 m	Units mg/Kg D is based on t Units Dil. g/Kg 1 D is based on t	Dil. 1 he spike ar Spike Amount 100	Spike Amount 100 and spike dup Matrix Result <3.25	Resu <3.2 clicate res Rec. 100	Prepared ix It	ared By: R Li 90	JS tec. imit - 110 RPD
QC Batch: Prep Batch: Param Chloride Percent recove	35392 30713 ery is based on the	LCS Result 99.4 e spike result. RP LCSD Result 100 m e spike result. RP	Units mg/Kg D is based on t Units Dil. g/Kg 1 D is based on t	Dil. 1 he spike ar Spike Amount 100	Spike Amount 100 nd spike dup Matrix Result <3.25 nd spike dup	Resu <3.2 clicate res Rec. 100	Preparity ix lt Rec. 5 99 ult. Rec. Limit 90 - 110 ult.	ared By: R Li 90	JS tec. imit - 110 RPD

Work Order: 7030823

•		MS			\mathbf{Spike}	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
		MS			Spike	Matrix		Rec.
Param		\mathbf{Result}	${f Units}$	Dil.	Amount	Result	Rec.	${f Limit}$
Chloride	1	247	mg/Kg	4	400	40.161	52	84.6 - 117

		MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param		Result	$_{ m Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	2	241	${ m mg/Kg}$	4	400	40.161	50	84.6 - 117	2	20

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

Standard (ICV-1)

QC Batch: 35392

Date Analyzed: 2007-03-08

Analyzed By: JS

Page Number: 4 of 4

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2007-03-08

Standard (CCV-1)

QC Batch: 35392

Date Analyzed: 2007-03-08

Analyzed By: JS

			$_{ m CCVs}$	CCVs	CCVs	Percent	.
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed_
Chloride		mg/Kg	100	100	100	85 - 115	2007-03-08

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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TraceAnalysis, Inc. email: lab@traceanalysis.com							Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296							Mid! Tel	asin S and, 1 (432) (432)	exas 689-	7 97 (6301	13	;	200 East Sunset Rd , Suite E EI Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443										y., Suite (as 761 ;)1-5260	110 32	
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Submittal of samples constitutes agreement to Te	an	d Cond	ditions	listed	on le	evers	e(S)d	e of C	. O.	C.				С	arrier	#	Co	0/	7 10	-te)										

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