

Summary Report

Tommy Folsom
Murchison Oil & Gas Inc.
P.O. Box 627
Carlsbad, NM, 88220

Report Date: July 26, 2007

Work Order: 7072518



Project Location: Burial Pit #3-insitu
Project Name: Rio State #4

30-015-34653

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
130886	S Floor & Wall Comp	soil	2007-07-24	11:00	2007-07-25
130887	W Floor & Wall Comp	soil	2007-07-24	11:20	2007-07-25
130888	N Floor & Wall Comp	soil	2007-07-24	11:55	2007-07-25
130889	E Floor & Wall Comp	soil	2007-07-24	12:30	2007-07-25

Sample: 130886 - S Floor & Wall Comp

Param	Flag	Result	Units	RL
Chloride		380	mg/Kg	5.00

Sample: 130887 - W Floor & Wall Comp

Param	Flag	Result	Units	RL
Chloride		84.6	mg/Kg	5.00

Sample: 130888 - N Floor & Wall Comp

Param	Flag	Result	Units	RL
Chloride		496	mg/Kg	5.00

Sample: 130889 - E Floor & Wall Comp

Param	Flag	Result	Units	RL
Chloride		196	mg/Kg	5.00



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Analytical and Quality Control Report

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Work Order: 7072518



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Project Name: Rio State #4
Project Number: Burial Pit #3-insitu

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
130886	S Floor & Wall Comp	soil	2007-07-24	11:00	2007-07-25
130887	W Floor & Wall Comp	soil	2007-07-24	11:20	2007-07-25
130888	N Floor & Wall Comp	soil	2007-07-24	11:55	2007-07-25
130889	E Floor & Wall Comp	soil	2007-07-24	12:30	2007-07-25

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 Rio State #4 were received by TraceAnalysis, Inc. on 2007-07-25 and assigned to work order 7072518. Samples for work order 7072518 were received intact at a temperature of 22.0 deg 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 7072518 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.

Analytical Report

Sample: 130886 - S Floor & Wall Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	39426	Date Analyzed:	2007-07-25	Analyzed By:	ER
Prep Batch:	34133	Sample Preparation:	2007-07-25	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		380	mg/Kg	10	5.00

Sample: 130887 - W Floor & Wall Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	39426	Date Analyzed:	2007-07-25	Analyzed By:	ER
Prep Batch:	34133	Sample Preparation:	2007-07-25	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		84.6	mg/Kg	4	5.00

Sample: 130888 - N Floor & Wall Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	39426	Date Analyzed:	2007-07-25	Analyzed By:	ER
Prep Batch:	34133	Sample Preparation:	2007-07-25	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		496	mg/Kg	10	5.00

Sample: 130889 - E Floor & Wall Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	39426	Date Analyzed:	2007-07-25	Analyzed By:	ER
Prep Batch:	34133	Sample Preparation:	2007-07-25	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		196	mg/Kg	10	5.00

Method Blank (1) QC Batch: 39426

QC Batch:	39426	Date Analyzed:	2007-07-25	Analyzed By:	ER
Prep Batch:	34133	QC Preparation:	2007-07-25	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Chloride		<3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch: 39426
Prep Batch: 34133

Date Analyzed: 2007-07-25
QC Preparation: 2007-07-25

Analyzed By: ER
Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<3.25	101	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	105	mg/Kg	1	100	<3.25	105	90 - 110	4	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: 130887

QC Batch: 39426
Prep Batch: 34133

Date Analyzed: 2007-07-25
QC Preparation: 2007-07-25

Analyzed By: ER
Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 293	mg/Kg	4	400	84.6	52	84.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 299	mg/Kg	4	400	84.6	54	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: 39426

Date Analyzed: 2007-07-25

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-07-25

Standard (CCV-1)

QC Batch: 39426

Date Analyzed: 2007-07-25

Analyzed By: ER

¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2007-07-25
