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ANALYTICA
Environmental Laboratories

4/30/2014

Maralex Resources, Inc.
864 20 Road
Unit A
Fruita, CO 81521
Attn: Jim Graves

Work Order #: B1404059
Date: 4/30/2014
Work ID: Camio Federal C-1
Date Received: 4/11/2014
Proj #: Soils

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
B1404059-01	C.F. C-1 Pit	B1404059-02	C.F. C-1 Ars #1
B1404059-03	C.F. C-1 Ars #2		

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Carissa Cumine
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Group, LLC - Thornton
Work Order: B1404059

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Standard Method for Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures, ASTM D 2216-80, July 1980.

Standard Methods for the Examination of Water and Wastewater, 21st Edition, 2005.

Test Methods for Evaluating Solid Waste, USEPA SW-846, Third Edition, Revision 4, December 1996.

SAMPLE RECEIPT:
Three (3) samples were received on 4/11/2014 10:30:00 AM at a temperature of 2.5°C at Analytica-Thornton. The samples were received in good condition and in order per chain of custody.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN

A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries, is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: Aromatic VOCs by GC/PID via method 8021B - BTEX - Soil
Test Method: ASTM D2216 - Pmoist - Soil
Test Method: Corrosivity in Waste by pH - pH - Soil
Test Method: Specific Conductance - Cond. - Soil
Test Method: SVOC by GC/FID via method 8015B - DRO - Soil
Test Method: SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Total Hg - Soil
Test Method: VOC by GC/FID via method 8015B - GRO - Soil

The following are subcontracted tests and have been represented to us as having met criteria:
Test Method: Pmoist-(Energy) - Soil
Test Method: Chromium, Hexavalent (Colorimetric) - Cr(VI) - Soil
Test Method: SM3500-CrB - Chromium, Colorimetric Method - Total Cr(III) calc - Soil
Test Method: Sodium Absorption Ratio - Soil
Test Method: SW6010B - ICP - Total ICP Energy - Soil
Test Method: SW6020 - ICPMS - Low Level Metals - Sol - Soil
Test Method: SW8270 - Semi-volatile Organics by SIM - SC - Soil

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: **Client Sample Report**

Client Sample Name: **C.F. C-1 Pit**

Matrix: Soil

Collection Date: 4/9/2014 4:10:00PM

The following test was conducted by: Analytica - Thornton

Lab Sample Number:	B1404059-01B	Analysis Date:	4/21/2014 5:22:16PM
Prep Date:	04-16-2014 11:04	Instrument:	GC_E
Analytical Method ID:	SVOC by GC/FID via method 8015B - DRO	File Name:	14042108.D
Prep Method ID:	3550B	Dilution Factor:	3
Prep Batch Number:	T140416014	Percent Moisture	5.97
Report Basis:	Dry Weight Basis	Analyst Initials:	TL
Sample prep wt./vol:	29.98 g	Prep Extract Vol:	1.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Diesel Range Organics	n/a	**82**		mg/Kg	13	3.8	2

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
o-Terphenyl	84-15-1	**0.96**		mg/Kg	0.89	0.70	1.8	**54.2**	50	150	2

The following test was conducted by: Analytica - Thornton

Lab Sample Number:	B1404059-01A	Analysis Date:	4/24/2014 1:26:03PM
Prep Date:	04-24-2014 10:04	Instrument:	Hank-Hg
Analytical Method ID:	SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Total H	File Name:	042414S.CSV
Prep Method ID:	7471A	Dilution Factor:	1
Prep Batch Number:	T140424001	Percent Moisture	5.97
Report Basis:	Dry Weight Basis	Analyst Initials:	AC
Sample prep wt./vol:	0.66 g	Prep Extract Vol:	50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Mercury	7439-97-6	**ND**		mg/Kg	0.041	0.0056	1

The following test was conducted by: Energy Laboratories

Lab Sample Number:	B1404059-01D	Analysis Date:	
Prep Date:		Instrument:	
Analytical Method ID:	ASTM D2216 - Pmoist-energy	File Name:	
Prep Method ID:	ASTMD2216	Dilution Factor:	
Prep Batch Number:	T140430019	Percent Moisture	
Report Basis:	As Received	Analyst Initials:	
Sample prep wt./vol:		Prep Extract Vol:	ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Lab Sample Number:	B1404059-01D	Analysis Date:	
Prep Date:		Instrument:	
Analytical Method ID:	SW8270C - Semivolatile Organics by GC/MS - SC	File Name:	
Prep Method ID:	3550B	Dilution Factor:	
Prep Batch Number:	T140430012	Percent Moisture	
Report Basis:	As Received	Analyst Initials:	
Sample prep wt./vol:		Prep Extract Vol:	ml

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: **Client Sample Report**

Client Sample Name: **C.F. C-1 Pit**

Matrix: Soil

Collection Date: 4/9/2014 4:10:00PM

Lab Sample Number: B1404059-01D
Analysis Date:
Prep Date:
Instrument:
Analytical Method ID: SW8270C - Semivolatile Organics by SIM - SC
File Name:
Prep Method ID: 3550B
Dilution Factor:
Prep Batch Number: T140430012
Percent Moisture
Report Basis: As Received
Analyst Initials:
Sample prep wt./vol:
Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-01D
Analysis Date:
Prep Date:
Instrument:
Analytical Method ID: SW6010B - ICP - Total ICP Energy
File Name:
Prep Method ID: 6010B
Dilution Factor:
Prep Batch Number: T140430011
Percent Moisture
Report Basis: As Received
Analyst Initials:
Sample prep wt./vol:
Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-01D
Analysis Date:
Prep Date:
Instrument:
Analytical Method ID: Chromium, Hexavalent (Colorimetric) - Cr(VI)
File Name:
Prep Method ID: 3060A
Dilution Factor:
Prep Batch Number: T140430017
Percent Moisture
Report Basis: As Received
Analyst Initials:
Sample prep wt./vol:
Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-01D
Analysis Date:
Prep Date:
Instrument:
Analytical Method ID: SW6020 - ICPMS - Low Level Metals - Sol
File Name:
Prep Method ID:
Dilution Factor:
Prep Batch Number: T140430018
Percent Moisture
Report Basis: As Received
Analyst Initials:
Sample prep wt./vol:
Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: Client Sample Report

Client Sample Name: **C.F. C-1 Pit**

Matrix: Soil

Collection Date: 4/9/2014 4:10:00PM

Lab Sample Number: B1404059-01D

Analysis Date:

Prep Date:

Instrument:

Analytical Method ID: Sodium Absorption Ratio

File Name:

Prep Method ID:

Dilution Factor:

Prep Batch Number: T140430009

Percent Moisture

Report Basis: As Received

Analyst Initials:

Sample prep wt./vol:

Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1404059-01C

Analysis Date: 4/14/2014 3:08:00PM

Prep Date: 04-14-2014 09:04

Instrument: GC_B

Analytical Method ID: Aromatic VOCs by GC/PID via method 8021B - BTEX

File Name: 14041409.D

Prep Method ID: 5030B

Dilution Factor: 1

Prep Batch Number: T140416009

Percent Moisture 5.97

Report Basis: Dry Weight Basis

Analyst Initials: EH

Sample prep wt./vol: 5.00 g

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Benzene	71-43-2	**ND**		ug/Kg	1.1	0.35	1
Ethylbenzene	100-41-4	**ND**		ug/Kg	1.6	0.49	
Toluene	108-88-3	**ND**		ug/Kg	1.1	0.21	
Xylenes, Total	1330-20-7	**ND**		ug/Kg	3.2	0.87	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
p-Bromofluorobenzene	460-00-4	**29**		ug/Kg	0.53	0.35	29	**102**	70	130	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1404059-01C

Analysis Date: 4/14/2014 3:08:00PM

Prep Date: 04-14-2014 09:04

Instrument: GC_B

Analytical Method ID: VOC by GC/FID via method 8015B - GRO

File Name: 14041409.D

Prep Method ID: 5030B

Dilution Factor: 1

Prep Batch Number: T140416007

Percent Moisture 5.97

Report Basis: Dry Weight Basis

Analyst Initials: EH

Sample prep wt./vol: 5.00 g

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Gasoline Range Organics	n/a	**ND**		ug/Kg	210	28	1

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
p-Bromofluorobenzene	460-00-4	**28**		ug/Kg	3.2	1.1	29	**95.9**	50	150	1

The following test was conducted by: Analytica - Thornton

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: Client Sample Report

Client Sample Name: **C.F. C-1 Pit**

Matrix: Soil

Collection Date: 4/9/2014 4:10:00PM

Lab Sample Number:	B1404059-01D	Analysis Date:	4/15/2014 8:50:55PM
Prep Date:	04-15-2014 08:04	Instrument:	Sub Contract
Analytical Method ID:	SM3500-CrB - Chromium, Colorimetric Method - Total Cr(III) cal	File Name:	
Prep Method ID:	3500-Cr-B	Dilution Factor:	
Prep Batch Number:	T140415011	Percent Moisture	
Report Basis:	As Received	Analyst Initials:	CC
Sample prep wt./vol:	1.00 ml	Prep Extract Vol:	1.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Analytica - Thornton

Lab Sample Number:	B1404059-01A	Analysis Date:	4/18/2014 10:40:00AM
Prep Date:	04-18-2014 10:04	Instrument:	Probe
Analytical Method ID:	Specific Conductance - Cond.	File Name:	
Prep Method ID:	9050A	Dilution Factor:	1
Prep Batch Number:	T140418015	Percent Moisture	
Report Basis:	As Received	Analyst Initials:	CRB
Sample prep wt./vol:	40.32 g	Prep Extract Vol:	40.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Conductance		**380**		umhos/cm	5.0	0.99	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number:	B1404059-01A	Analysis Date:	4/17/2014 4:15:00PM
Prep Date:	04-17-2014 16:04	Instrument:	Probe
Analytical Method ID:	Corrosivity in Waste by pH - pH	File Name:	
Prep Method ID:	9045B	Dilution Factor:	1
Prep Batch Number:	T140417009	Percent Moisture	
Report Basis:	As Received	Analyst Initials:	CRB
Sample prep wt./vol:	10.69 g	Prep Extract Vol:	10.69 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
pH		**8.88**		pH	0.10	0.10	1

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: Client Sample Report

Client Sample Name: **C.F. C-1 Ars #1**

Matrix: Soil

Collection Date: 4/9/2014 4:15:00PM

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-02A

Analysis Date:

Prep Date:

Instrument:

Analytical Method ID: ASTM D2216 - Pmoist-energy

File Name:

Prep Method ID: ASTMD2216

Dilution Factor:

Prep Batch Number: T140430019

Percent Moisture

Report Basis: As Received

Analyst Initials:

Sample prep wt./vol:

Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-02A

Analysis Date:

Prep Date:

Instrument:

Analytical Method ID: SW6020 - ICPMS - Low Level Metals - Sol

File Name:

Prep Method ID:

Dilution Factor:

Prep Batch Number: T140430018

Percent Moisture

Report Basis: As Received

Analyst Initials:

Sample prep wt./vol:

Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: Client Sample Report

Client Sample Name: **C.F. C-1 Ars #2**

Matrix: Soil

Collection Date: 4/9/2014 4:20:00PM

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-03A

Analysis Date:

Prep Date:

Instrument:

Analytical Method ID: ASTM D2216 - Pmoist-energy

File Name:

Prep Method ID: ASTMD2216

Dilution Factor:

Prep Batch Number: T140430019

Percent Moisture

Report Basis: As Received

Analyst Initials:

Sample prep wt./vol:

Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1404059-03A

Analysis Date:

Prep Date:

Instrument:

Analytical Method ID: SW6020 - ICPMS - Low Level Metals - Sol

File Name:

Prep Method ID:

Dilution Factor:

Prep Batch Number: T140430018

Percent Moisture

Report Basis: As Received

Analyst Initials:

Sample prep wt./vol:

Prep Extract Vol: ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
See Subcontractor Report							

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Solid

Collection Date: 4/16/2014 11:07:00AM

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T140416014-MB
Prep Date: 04-16-2014 11:04
Analytical Method ID: SVOC by GC/FID via method 8015B - DRO
Prep Method ID: 3550B
Prep Batch Number: T140416014
Report Basis: As Received
Sample prep wt./vol: 29.97 g

Analysis Date: 4/21/2014 2:53:49PM
Instrument: GC_E
File Name: 14042105.D
Dilution Factor: 1
Percent Moisture NA
Analyst Initials: TL
Prep Extract Vol: 1.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Diesel Range Organics	n/a	**ND**		mg/Kg	5.0	1.4	1

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
o-Terphenyl	84-15-1	**1.2**		mg/Kg	0.33	0.26	1.7	**74.0**	50	150	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T140424001-MB
Prep Date: 04-24-2014 10:04
Analytical Method ID: SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Total H
Prep Method ID: 7471A
Prep Batch Number: T140424001
Report Basis: As Received
Sample prep wt./vol: 0.60 g

Analysis Date: 4/24/2014 1:18:14PM
Instrument: Hank-Hg
File Name: 042414S.CSV
Dilution Factor: 1
Percent Moisture NA
Analyst Initials: AC
Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Mercury	7439-97-6	**ND**		mg/Kg	0.042	0.0057	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T140416009-MB
Prep Date: 04-14-2014 09:04
Analytical Method ID: Aromatic VOCs by GC/PID via method 8021B - BTEX
Prep Method ID: 5030B
Prep Batch Number: T140416009
Report Basis: As Received
Sample prep wt./vol: 5.00 g

Analysis Date: 4/14/2014 1:00:00PM
Instrument: GC_B
File Name: 14041405.D
Dilution Factor: 1
Percent Moisture NA
Analyst Initials: EH
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Benzene	71-43-2	**ND**		ug/Kg	1.0	0.33	1
Ethylbenzene	100-41-4	**ND**		ug/Kg	1.5	0.46	
Toluene	108-88-3	**ND**		ug/Kg	1.0	0.20	
Xylenes, Total	1330-20-7	**ND**		ug/Kg	3.0	0.82	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
p-Bromofluorobenzene	460-00-4	**27**		ug/Kg	0.50	0.33	27	**100**	70	130	1

The following test was conducted by: Analytica - Thornton

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Solid

Collection Date: 4/14/2014 9:59:00AM

Lab Sample Number:	T140416007-MB	Analysis Date:	4/14/2014 1:00:00PM
Prep Date:	04-14-2014 09:04	Instrument:	GC_B
Analytical Method ID:	VOC by GC/FID via method 8015B - GRO	File Name:	14041405.D
Prep Method ID:	5030B	Dilution Factor:	1
Prep Batch Number:	T140416007	Percent Moisture	NA
Report Basis:	As Received	Analyst Initials:	EH
Sample prep wt./vol:	5.00 g	Prep Extract Vol:	5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Gasoline Range Organics	n/a	**ND**		ug/Kg	200	26	1

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
p-Bromofluorobenzene	460-00-4	**27**		ug/Kg	3.0	1.0	27	**98.9**	50	150	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number:	T140418015-MB	Analysis Date:	4/18/2014 10:40:00AM
Prep Date:	04-18-2014 10:04	Instrument:	Probe
Analytical Method ID:	Specific Conductance - Cond.	File Name:	
Prep Method ID:	9050A	Dilution Factor:	1
Prep Batch Number:	T140418015	Percent Moisture	NA
Report Basis:	As Received	Analyst Initials:	CRB
Sample prep wt./vol:	40.00 g	Prep Extract Vol:	40.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Conductance		**ND**		umhos/cm	5.0	1.0	1

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1404059

Project: Camio Federal C-1

Project Number:

Prep Batch: **T140416014**

QUALITY CONTROL REPORT

LCS REPORT

Analysis: SVOC by GC/FID via method 8015B - DRO

MB: T140416014-MB

Prep Date: 4/16/2014

MB Anal. Date: 4/21/2014 2:53:49PM

Units: mg/Kg

LCS Anal. Date: 4/21/2014 3:43:14PM

Matrix: Solid

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Diesel Range Organics	ND	62.4	66.8	93.5	75 - 125		

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1404059

Project: Camio Federal C-1

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140424001**

SAMPLE DUPLICATE REPORT

Analysis: SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Tot

Base Sample: B1404059-01A

Prep Date: 4/24/2014

Samp. Anal. Date: 4/24/2014 1:26:03PM

Units: mg/Kg

DUP Anal. Date: 4/24/2014 1:28:01PM

Matrix: Soil

Analyte Name	SampResult	DUPRes.	RPD	RPDLim	Flag
Mercury	ND	ND	0.0	35	

LCS REPORT

Analysis: SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Tot

MB: T140424001-MB

Prep Date: 4/24/2014

MB Anal. Date: 4/24/2014 1:18:14PM

Units: mg/Kg

LCS Anal. Date: 4/24/2014 1:22:08PM

Matrix: Solid

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Mercury	ND	0.435	0.417	104.4	70 - 130		

MS/MSD REPORT

Analysis: SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Tot

Parent: B1404059-01A

Prep Date: 4/24/2014

Samp. Anal. Date: 4/24/2014 1:26:03PM

Units: mg/Kg

MS Anal. Date: 4/24/2014 1:29:58PM MSD Anal. Date: 4/24/2014 1:31:55PM

Matrix: Soil

Analyte Name	SampResult	MSRes.	MSDRes	SPLev	SPDLev	Recov.	MSD Rec.	RPD	Recov Lim	RPDLim	Flag
Mercury	ND	0.493	0.494	0.421	0.421	117.0	117.2	0.2	70 - 130	35	

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1404059

Project: Camio Federal C-1

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140416007**

LCS REPORT

Analysis: VOC by GC/FID via method 8015B - GRO

MB: T140416007-MB

Prep Date: 4/14/2014

MB Anal. Date: 4/14/2014 1:00:00PM

Units: ug/Kg

LCS Anal. Date: 4/14/2014 2:04:00PM

Matrix: Solid

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Gasoline Range Organics	ND	536	500	107.2	60 - 118		

MS/MSD REPORT

Analysis: VOC by GC/FID via method 8015B - GRO

Parent: B1404059-01C

Prep Date: 4/14/2014

Samp. Anal. Date: 4/14/2014 3:08:00PM

Units: ug/Kg

MS Anal. Date: 4/14/2014 3:45:00PM MSD Anal. Date: 4/14/2014 4:17:00PM

Matrix: Soil

Analyte Name	SampResult	MSRes.	MSDRes	SPLev	SPDLev	Recov.	MSD Rec.	RPD	Recov Lim	RPDLim	Flag
Gasoline Range Organics	ND	437	503	532	532	82.2	94.6	14.0	50 - 138	20	

Prep Batch: **T140416009**

LCS REPORT

Analysis: Aromatic VOCs by GC/PID via method 8021B - BTEX

MB: T140416009-MB

Prep Date: 4/14/2014

MB Anal. Date: 4/14/2014 1:00:00PM

Units: ug/Kg

LCS Anal. Date: 4/14/2014 1:32:00PM

Matrix: Solid

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Benzene	ND	10.5	10.0	105.0	70 - 130		
Toluene	ND	10.4	10.0	104.0	70 - 130		
Ethylbenzene	ND	10.3	10.0	103.0	70 - 130		
Xylenes, Total	ND	30.3	30.0	101.0	70 - 130		

MS/MSD REPORT

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1404059

Project: Camio Federal C-1

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140416009**

MS/MSD REPORT

Analysis: Aromatic VOCs by GC/PID via method 8021B - BTEX

Parent: B1404059-01C

Prep Date: 4/14/2014

Samp. Anal. Date: 4/14/2014 3:08:00PM

Units: ug/Kg

MS Anal. Date: 4/14/2014 4:49:00PM MSD Anal. Date: 4/14/2014 5:21:00PM

Matrix: Soil

Analyte Name	SampResult	MSRes.	MSDRes	SPLev	SPDLev	Recov.	MSD Rec.	RPD	Recov Lim	RPDLim	Flag
Benzene	ND	11.6	10.9	10.6	10.6	109.1	102.5	6.2	70 - 130	20	
Toluene	ND	11.4	11.1	10.6	10.6	107.2	104.4	2.7	70 - 130	20	
Ethylbenzene	ND	10.4	10.1	10.6	10.6	97.8	95.0	2.9	70 - 130	20	
Xylenes, Total	ND	31.4	30.3	31.9	31.9	98.4	95.0	3.6	70 - 130	20	

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1404059

Project: Camio Federal C-1

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140418015**

LCS REPORT

Analysis:	Specific Conductance - Cond.	MB:	T140418015-MB
		Prep Date:	4/18/2014
MB Anal. Date:	4/18/2014 10:40:00AM	Units:	umhos/cm
LCS Anal. Date:	4/18/2014 10:40:00AM	Matrix:	Solid

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Conductance	ND	177	147	120.4	80 - 120		high

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

SURROGATE RECOVERY SUMMARY REPORT

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Test Method: **SVOC by GC/FID via method 8015B - DRO**

Lab Sample #:	B1404059-01B			Dilution:	10		
Analysis Date:	4/21/2014 4:32:50PM			Client Sample:	**C.F. C-1 Pit**		
Batch Number:	T140416014			Data File:	14042107.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		81	50	150		DILUTED OUT	Confirm

Lab Sample #:	B1404059-01B			Dilution:	3		
Analysis Date:	4/21/2014 5:22:16PM			Client Sample:	**C.F. C-1 Pit**		
Batch Number:	T140416014			Data File:	14042108.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		54	50	150			Complete

Lab Sample #:	B1404060-01A			Dilution:	10		
Analysis Date:	4/21/2014 6:11:30PM			Client Sample:	**Batch QC**		
Batch Number:	T140416014			Data File:	14042109.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		93	50	150		DILUTED OUT	Confirm

Lab Sample #:	B1404060-01A			Dilution:	1		
Analysis Date:	4/21/2014 7:00:35PM			Client Sample:	**Batch QC**		
Batch Number:	T140416014			Data File:	14042110.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		107	50	150			Complete

Lab Sample #:	T140416014-MB			Dilution:	1		
Analysis Date:	4/21/2014 2:53:49PM			Client Sample:	**MB**		
Batch Number:	T140416014			Data File:	14042105.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		74	60	120			Complete

Lab Sample #:	T140416014-LCS			Dilution:	1		
Analysis Date:	4/21/2014 3:43:14PM			Client Sample:	**LCS**		
Batch Number:	T140416014			Data File:	14042106.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		96	60	120			Complete

Lab Sample #:	B1404060-01A-MS			Dilution:	10		
Analysis Date:	4/21/2014 7:49:56PM			Client Sample:	**MS**		
Batch Number:	T140416014			Data File:	14042111.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		106	50	150		DILUTED OUT	Confirm

Lab Sample #:	B1404060-01A-MS			Dilution:	1		
Analysis Date:	4/21/2014 8:39:15PM			Client Sample:	**MS**		
Batch Number:	T140416014			Data File:	14042112.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**
o-Terphenyl		120	50	150			Complete

Lab Sample #:	B1404060-01A-MSD			Dilution:	10		
Analysis Date:	4/21/2014 9:28:42PM			Client Sample:	**MSD**		
Batch Number:	T140416014			Data File:	14042113.D		
AnalyteName		**SSRecov**	**LCL**	**UCL**	**SSFlag**		**Result Status**

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Test Method: **SVOC by GC/FID via method 8015B - DRO**

Lab Sample #: B1404060-01A-MSD | Dilution: 10
Analysis Date: 4/21/2014 9:28:42PM | Client Sample: **MSD**
Batch Number: T140416014 | Data File: 14042113.D

AnalyteName	SSRecov	LCL	UCL	SSFlag		Result Status
o-Terphenyl	103	50	150		DILUTED OUT	Confirm

Lab Sample #: B1404060-01A-MSD | Dilution: 1
Analysis Date: 4/21/2014 10:18:04PM | Client Sample: **MSD**
Batch Number: T140416014 | Data File: 14042114.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
o-Terphenyl	95	50	150		Complete

Test Method: **Aromatic VOCs by GC/PID via method 8021B - BTEX**

Lab Sample #: B1404059-01C | Dilution: 1
Analysis Date: 4/14/2014 3:08:00PM | Client Sample: **C.F. C-1 Pit**
Batch Number: T140416009 | Data File: 14041409.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	102	70	130		Complete

Lab Sample #: T140416009-MB | Dilution: 1
Analysis Date: 4/14/2014 1:00:00PM | Client Sample: **MB**
Batch Number: T140416009 | Data File: 14041405.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	100	70	130		Complete

Lab Sample #: T140416009-LCS | Dilution: 1
Analysis Date: 4/14/2014 1:32:00PM | Client Sample: **LCS**
Batch Number: T140416009 | Data File: 14041406.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	99	70	130		Complete

Lab Sample #: B1404059-01C-MS | Dilution: 1
Analysis Date: 4/14/2014 4:49:00PM | Client Sample: **MS**
Batch Number: T140416009 | Data File: 14041412.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	98	70	130		Complete

Lab Sample #: B1404059-01C-MSD | Dilution: 1
Analysis Date: 4/14/2014 5:21:00PM | Client Sample: **MSD**
Batch Number: T140416009 | Data File: 14041413.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	96	70	130		Complete

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

Test Method: **VOC by GC/FID via method 8015B - GRO**

Lab Sample #: B1404059-01C | Dilution: 1
Analysis Date: 4/14/2014 3:08:00PM | Client Sample: **C.F. C-1 Pit**
Batch Number: T140416007 | Data File: 14041409.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	96	50	150		Complete

Lab Sample #: T140416007-MB | Dilution: 1
Analysis Date: 4/14/2014 1:00:00PM | Client Sample: **MB**
Batch Number: T140416007 | Data File: 14041405.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	99	63	130		Complete

Lab Sample #: T140416007-LCS | Dilution: 1
Analysis Date: 4/14/2014 2:04:00PM | Client Sample: **LCS**
Batch Number: T140416007 | Data File: 14041407.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	103	63	130		Complete

Lab Sample #: B1404059-01C-MS | Dilution: 1
Analysis Date: 4/14/2014 3:45:00PM | Client Sample: **MS**
Batch Number: T140416007 | Data File: 14041410.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	93	50	150		Complete

Lab Sample #: B1404059-01C-MSD | Dilution: 1
Analysis Date: 4/14/2014 4:17:00PM | Client Sample: **MSD**
Batch Number: T140416007 | Data File: 14041411.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	100	50	150		Complete

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **159,290** **Lab Project Number:** **B1404059**

Prep Date: 4/15/2014

Lab Method Blank Id: T140416004-MB
Prep Batch ID: T140416004
Method: ASTM D2216 - Pmoist

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
B1404059-01B	C.F. C-1 Pit		4/17/2014 11:05:57AM
B1404060-08A	Batch QC		4/17/2014 11:05:57AM
B1404060-08A-DUP	DUP		4/17/2014 11:05:57AM

Prep Date: 4/14/2014

Lab Method Blank Id: T140416007-MB
Prep Batch ID: T140416007
Method: VOC by GC/FID via method 8015B - GRO

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
T140416007-LCS	LCS	14041407.D	4/14/2014 2:04:00PM
B1404059-01C	C.F. C-1 Pit	14041409.D	4/14/2014 3:08:00PM
B1404059-01C-MS	MS	14041410.D	4/14/2014 3:45:00PM
B1404059-01C-MSD	MSD	14041411.D	4/14/2014 4:17:00PM

Prep Date: 4/14/2014

Lab Method Blank Id: T140416009-MB
Prep Batch ID: T140416009
Method: Aromatic VOCs by GC/PID via method 8021B - BTEX

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
T140416009-LCS	LCS	14041406.D	4/14/2014 1:32:00PM
B1404059-01C	C.F. C-1 Pit	14041409.D	4/14/2014 3:08:00PM
B1404059-01C-MS	MS	14041412.D	4/14/2014 4:49:00PM
B1404059-01C-MSD	MSD	14041413.D	4/14/2014 5:21:00PM

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **159,290** **Lab Project Number:** **B1404059**

Prep Date: 4/16/2014

Lab Method Blank Id: T140416014-MB
Prep Batch ID: T140416014
Method: SVOC by GC/FID via method 8015B - DRO

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
T140416014-LCS	LCS	14042106.D	4/21/2014 3:43:14PM
B1404059-01B	C.F. C-1 Pit	14042108.D	4/21/2014 5:22:16PM
B1404060-01A	Batch QC	14042110.D	4/21/2014 7:00:35PM
B1404060-01A-MS	MS	14042112.D	4/21/2014 8:39:15PM
B1404060-01A-MSD	MSD	14042114.D	4/21/2014 10:18:04PM

Prep Date: 4/18/2014

Lab Method Blank Id: T140418015-MB
Prep Batch ID: T140418015
Method: Specific Conductance - Cond.

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
B1404059-01A	C.F. C-1 Pit		4/18/2014 10:40:00AM
B1404060-03A	Batch QC		4/18/2014 10:40:00AM
T140418015-LCS	LCS		4/18/2014 10:40:00AM
B1404060-03A-DUP	DUP		4/18/2014 10:40:00AM

Prep Date: 4/24/2014

Lab Method Blank Id: T140424001-MB
Prep Batch ID: T140424001
Method: SW7471A - Mercury in Solid or Semisolid Waste by CVAA - Tot

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
B1404059-01A	C.F. C-1 Pit	042414S.CSV	4/24/2014 1:26:03PM
T140424001-LCS	LCS	042414S.CSV	4/24/2014 1:22:08PM
B1404059-01A-DUP	DUP	042414S.CSV	4/24/2014 1:28:01PM
B1404059-01A-MS	MS	042414S.CSV	4/24/2014 1:29:58PM
B1404059-01A-MSD	MSD	042414S.CSV	4/24/2014 1:31:55PM

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

DATA FLAGS AND DEFINITIONS

The PQL is the Method Quantitation Limit as defined by USACE.
Reporting Limit: Limit below which results are shown as "ND". This may be the PQL, MDL, or a value between. See the report conventions below.

Result Field:

ND = Not Detected at or above the Reporting Limit
NA = Analyte not applicable (see Case Narrative for discussion)

Qualifier Fields:

LOW = Recovery is below Lower Control Limit
HIGH = Recovery , RPD, or other parameter is above Upper Control Limit
E = Reported concentration is above the instrument calibration upper range

Organic Analysis Flags:

B = Analyte was detected in the laboratory method blank
J = Analyte was detected above MDL or Reporting Limit but below the Quant Limit (PQL)

Inorganic Analysis Flags:

J = Analyte was detected above the Reporting Limit but below the Quant Limit (PQL)
W = Post digestion spike did not meet criteria
S = Reported value determined by the Method of Standard Additions (MSA)

Several ways of defining the limit of detection and quantitation are prevalent in the laboratory industry and may appear in Analytica reports. These include the following:

MRL = "minimum reporting level", from the EPA Safe Drinking Water program (SDW)
PQL = "practical quantitation limit", from SW-846
EQL = "estimated quantitation limit", from SW-846
LOQ = "limit of quantitation", from a number of authoritative sources

In Analytica's work, all of these terms have the same meaning, equivalent to the EPA definition of the MRL. This reporting level is supported by a satisfactory calibration data point which is at that level or lower, and also is supported by a method detection limit (MDL) determined by the procedure in 40CFR. The MDL is lower than the MRL and represents an estimate of the level where positive detections have a 99% probability of being real, but where quantitation accuracy is unknown.

The MRL as defined by Analytica is the lowest demonstrated point of known quantitation accuracy.
The MRL should not be confused with the MCL, which is the EPA-defined "maximum contaminant level" allowed for certain regulated targets under specific regulations, such as the National Primary Drinking Water Regulations. Normally, the MRL is set at a level which is much lower than the MCL in order to ensure that levels are well below those limits. Not all target analytes have MCL levels established.

Other Flags may be applied. See Case Narrative for Description

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1404059

Project: **Camio Federal C-1**

Client: **Maralex Resources, Inc.**

Client Project Number: **Soils**

REPORTING CONVENTIONS FOR THIS REPORT

B1404059

TestPkgName	Basis	# Sig Figs	Reporting Limit
3500-Cr-B/3500-Cr-B (Solid) - Total Cr(III) calculat	As Received	2	Report to PQL
6010B/6010B (Solid) - Total ICP Energy	Dry Weight Basis	2	Report to PQL
6020A (Solid) - Low Level Metals - Sol	Dry Weight Basis	2	Report to PQL
7196_A/3060A (Solid) - Cr(VI)	Dry Weight Basis	2	Report to PQL
7471A/7471A (Solid) - Total Hg	Dry Weight Basis	2	Report to PQL
8015/5030B (Solid) - GRO	Dry Weight Basis	2	Report to PQL
8015B/3550B (Solid) - DRO	Dry Weight Basis	2	Report to PQL
8021/5030B (Solid) - BTEX	Dry Weight Basis	2	Report to PQL
8270 SIM Solid) - SC	Dry Weight Basis	2	Report to MDL, J qual below PQL
9045B/9045B (Solid) - pH	As Received	3	Report to PQL
9050A/9050A (Solid) - Cond.	As Received	2	Report to PQL
ASTMD2216/ASTMD2216 (Solid) - Pmoist	As Received	3	Report to MDL, J qual below PQL
ASTMD2216/ASTMD2216 (Solid) - Pmoist-energy	As Received	3	Report to MDL, J qual below PQL
SAR (Solid)	As Received	2	Report to PQL

ANALYTICAL SUMMARY REPORT

May 01, 2014

Analytica Group Inc
12189 Pennsylvania St
Thornton, CO 80241

Work Order: B14041341

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 3 samples for Analytica Group Inc on 4/15/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B14041341-001	B1404059-01D, CF C-1 Pit	04/09/14 16:10	04/15/14	Soil	Cations, Saturated Paste Chromium, Hexavalent Water Extraction for Hex Chromium Chromium, Trivalent Metals by ICP, Total Metals, Total Moisture Moisture prep Percent Moisture Digestion, Total Metals Saturated Paste Extraction Sodium Adsorption Ratio Soil Sonication Extraction Semi-Volatile Organic Compounds, PAHs Low Level
B14041341-002	B1404059-02A, CF C-1 Ars #1	04/09/14 16:15	04/15/14	Soil	Metals, Total Moisture, % Dry Basis Percent Moisture Digestion, Total Metals
B14041341-003	B1404059-03A, CF C-1 Ars #2	04/09/14 16:20	04/15/14	Soil	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Analytica Group Inc
Project: Not Indicated
Work Order: B14041341

Revised Date: 05/01/14
Report Date: 04/30/14

CASE NARRATIVE

Revised Report 05/01/2014

The Client Sample ID has been corrected from B1404059-01D, CF C-1 Ars #1 to B1404059-02A, CF C-1 Ars #1 for sample B14041341-002 and B1404059-02A, CF C-1 Ars #2 has been corrected to B1404059-03A, CF C-1 Ars #2 for sample B14041341-003 as indicated on the Chain of Custody.

The report has been revised and replaces any previously issued report in its entirety.

DATES REPORT

Work Order: B14041341
Client: Analytica Group Inc
Project: Not Indicated

Revised Date: 05/01/14
Report Date: 04/30/14

Lab ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date Method Batch	Analysis Date
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Cations, Saturated Paste		04/22/2014 SW6010B [79184]	4/23/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Chromium, Hexavalent		04/18/2014 SW7196A [79104]	4/18/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Chromium, Trivalent		NA	4/28/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Metals by ICP, Total		04/24/2014 SW6010B [79212]	4/25/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Metals, Total		04/24/2014 SW6020 [79212]	4/25/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Moisture		04/17/2014 SW3550A [79060]	4/17/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Percent Moisture		NA	4/17/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Semi-Volatile Organic Compounds, PAHs Low Level		04/17/2014 SW8270C [79061]	4/23/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Sodium Adsorption Ratio		NA	4/24/2014
B14041341-001A	B1404059-01D, CF C-1 Pit	4/9/2014 4:10:00 PM	Soil	Supervisor Review		NA	4/24/2014
B14041341-002A	B1404059-02A, CF C-1 Ars #1	4/9/2014 4:15:00 PM	Soil	Metals, Total		04/23/2014 SW6020 [79132]	4/24/2014
B14041341-002A	B1404059-02A, CF C-1 Ars #1	4/9/2014 4:15:00 PM	Soil	Moisture, % Dry Basis		NA	4/28/2014
B14041341-002A	B1404059-02A, CF C-1 Ars #1	4/9/2014 4:15:00 PM	Soil	Percent Moisture		NA	4/28/2014
B14041341-003A	B1404059-03A, CF C-1 Ars #2	4/9/2014 4:20:00 PM	Soil	Metals, Total		04/23/2014 SW6020 [79132]	4/24/2014
B14041341-003A	B1404059-03A, CF C-1 Ars #2	4/9/2014 4:20:00 PM	Soil	Moisture, % Dry Basis		NA	4/28/2014
B14041341-003A	B1404059-03A, CF C-1 Ars #2	4/9/2014 4:20:00 PM	Soil	Percent Moisture		NA	4/28/2014

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Revised Date: 05/01/14
Report Date: 04/30/14
Collection Date: 04/09/14 16:10
DateReceived: 04/15/14
Matrix: Soil

Client: Analytica Group Inc
Project: Not Indicated
Lab ID: B14041341-001
Client Sample ID: B1404059-01D, CF C-1 Pit

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	7.2	wt%		0.2		SW3550A	04/17/14 12:41 / cmb
SATURATED PASTE							
Calcium, sat. paste	4.87	meq/L		0.05		SW6010B	04/23/14 18:25 / mas
Magnesium, sat. paste	0.84	meq/L		0.08		SW6010B	04/23/14 18:25 / mas
Sodium, sat. paste	4.43	meq/L		0.04		SW6010B	04/23/14 18:25 / mas
Sodium Adsorption Ratio (SAR)	2.62	unitless		0.01		Calculation	04/24/14 12:44 / srm
METALS, WATER EXTRACTABLE							
Chromium, Hexavalent - Soluble	ND	mg/kg-dry		0.001		SW7196A	04/18/14 15:50 / mas
Chromium, Trivalent	16	mg/kg-dry		5		Calculation	04/28/14 10:56 / car
METALS, TOTAL							
Arsenic	13.6	mg/kg-dry		0.2		SW6020	04/25/14 11:40 / mas
Barium	1750	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Boron	13	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Cadmium	ND	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Chromium	16	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Copper	19	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Lead	52	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Nickel	10	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Selenium	ND	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Silver	ND	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
Zinc	65	mg/kg-dry		5		SW6010B	04/25/14 04:08 / mas
SEMI-VOLATILE ORGANIC COMPOUNDS - LOW CONCENTRATION							
Acenaphthene	0.0037	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
~~Acenaphthylene~~	~~ND~~	~~mg/kg-dry~~		~~0.0036~~		~~SW8270C~~	~~04/23/14 00:26 / jjb~~
Anthracene	0.037	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Benzo(a)anthracene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Benzo(a)pyrene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Benzo(b)fluoranthene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
~~Benzo(g,h,i)perylene~~	~~ND~~	~~mg/kg-dry~~		~~0.0036~~		~~SW8270C~~	~~04/23/14 00:26 / jjb~~
Benzo(k)fluoranthene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Chrysene	0.0060	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Dibenzo(a,h)anthracene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Fluoranthene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Fluorene	0.0050	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Indeno(1,2,3-cd)pyrene	ND	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Naphthalene	0.0047	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
~~Phenanthrene~~	~~0.020~~	~~mg/kg-dry~~		~~0.0036~~		~~SW8270C~~	~~04/23/14 00:26 / jjb~~
Pyrene	0.023	mg/kg-dry		0.0036		SW8270C	04/23/14 00:26 / jjb
Surr: 2-Fluorobiphenyl	67.0	%REC		47-110		SW8270C	04/23/14 00:26 / jjb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Revised Date: 05/01/14
Report Date: 04/30/14
Collection Date: 04/09/14 16:10
DateReceived: 04/15/14
Matrix: Soil

Client: Analytica Group Inc
Project: Not Indicated
Lab ID: B14041341-001
Client Sample ID: B1404059-01D, CF C-1 Pit

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS - LOW CONCENTRATION							
Surr: Nitrobenzene-d5	64.0	%REC		43-105		SW8270C	04/23/14 00:26 / jjb
Surr: Terphenyl-d14	79.0	%REC		51-117		SW8270C	04/23/14 00:26 / jjb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Revised Date: 05/01/14
Report Date: 04/30/14
Collection Date: 04/09/14 16:15
DateReceived: 04/15/14
Matrix: Soil

Client: Analytica Group Inc
Project: Not Indicated
Lab ID: B14041341-002
Client Sample ID: B1404059-02A, CF C-1 Ars #1

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	17.8	wt%		0.20		A2540 G	04/28/14 11:07 / mgs
METALS, TOTAL							
Arsenic	7.9	mg/kg-dry		0.2		SW6020	04/24/14 19:47 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Revised Date: 05/01/14
Report Date: 04/30/14
Collection Date: 04/09/14 16:20
DateReceived: 04/15/14
Matrix: Soil

Client: Analytica Group Inc
Project: Not Indicated
Lab ID: B14041341-003
Client Sample ID: B1404059-03A, CF C-1 Ars #2

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	9.20	wt%		0.20		A2540 G	04/28/14 11:08 / mgs
METALS, TOTAL							
Arsenic	6.6	mg/kg-dry		0.2		SW6020	04/24/14 19:50 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc
Project: Not Indicated

Report Date: 04/29/14
Work Order: B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Calculation										Batch: R222701
Lab ID: B14041531-003B DUP		Sample Duplicate				Run: MISC-SOIL_140424B			04/24/14 12:44	
Sodium Adsorption Ratio (SAR)		8.51	unitless	0.010				3.7	30	
Lab ID: B14041531-012B DUP		Sample Duplicate				Run: MISC-SOIL_140424B			04/24/14 12:44	
Sodium Adsorption Ratio (SAR)		40.4	unitless	0.010				1.6	30	
Lab ID: B14041671-005A DUP		Sample Duplicate				Run: MISC-SOIL_140424B			04/24/14 12:44	
Sodium Adsorption Ratio (SAR)		3.78	unitless	0.010				0.8	30	
Lab ID: LCS-1404241244		Laboratory Control Sample				Run: MISC-SOIL_140424B			04/24/14 12:44	
Sodium Adsorption Ratio (SAR)		16.4	unitless	0.010	126	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14

Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP201-B_140423A	
Lab ID: QCS	3	Initial Calibration Verification Standard							04/23/14 10:28	
Calcium		40.7	mg/L	1.0	102	90	110			
Magnesium		41.5	mg/L	1.0	104	90	110			
Sodium		40.9	mg/L	1.0	102	90	110			
Lab ID: ICSA	3	Interference Check Sample A							04/23/14 10:40	
Calcium		466	mg/L	1.0	93	80	120			
Magnesium		504	mg/L	1.0	101	80	120			
Sodium		0.742	mg/L	1.0						
Lab ID: ICSAB	3	Interference Check Sample AB							04/23/14 10:44	
Calcium		473	mg/L	1.0	95	80	120			
Magnesium		512	mg/L	1.0	102	80	120			
Sodium		21.1	mg/L	1.0	106	80	120			
Method: SW6010B										Batch: 79184
Lab ID: MB-79184	6	Method Blank				Run: ICP201-B_140423A			04/23/14 18:18	
Calcium		ND	mg/L	1.0						
Magnesium		ND	mg/L	1.0						
Sodium		0.0273	mg/L	1.0						
Calcium, sat. paste		ND	meq/L	0.050						
Magnesium, sat. paste		ND	meq/L	0.080						
Sodium, sat. paste		0.00119	meq/L	0.040						
Lab ID: LCS-79184	3	Laboratory Control Sample				Run: ICP201-B_140423A			04/23/14 18:22	
Calcium, sat. paste		79.6	meq/L	0.050	102	50	150			
Magnesium, sat. paste		54.2	meq/L	0.082	109	50	150			
Sodium, sat. paste		110	meq/L	0.044	105	50	150			
Lab ID: B14041671-005A DUP	3	Sample Duplicate				Run: ICP201-B_140423A			04/23/14 19:05	
Calcium, sat. paste		1.96	meq/L	0.050				4.3	30	
Magnesium, sat. paste		6.27	meq/L	0.082				2.2	30	
Sodium, sat. paste		7.67	meq/L	0.044				0.6	30	
Lab ID: B14041671-006AMS2	3	Sample Matrix Spike				Run: ICP201-B_140423A			04/23/14 19:18	
Calcium, sat. paste		16.0	meq/L	0.050	103	50	150			
Magnesium, sat. paste		29.2	meq/L	0.082	107	50	150			
Sodium, sat. paste		22.7	meq/L	0.070	107	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14

Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Analytical Run: ICP203-B_140424A	
Lab ID: QCS	10	Initial Calibration Verification Standard							04/24/14 11:52	
Barium		0.798	mg/L	0.10	100	90	110			
Boron		0.776	mg/L	0.10	97	90	110			
Cadmium		0.387	mg/L	0.010	97	90	110			
Chromium		0.794	mg/L	0.050	99	90	110			
Copper		0.788	mg/L	0.010	99	90	110			
Lead		0.759	mg/L	0.050	95	90	110			
Nickel		0.773	mg/L	0.050	97	90	110			
Selenium		0.792	mg/L	0.10	99	90	110			
Silver		0.401	mg/L	0.010	100	90	110			
Zinc		0.780	mg/L	0.010	98	90	110			
Lab ID: ICSA	10	Interference Check Sample A							04/24/14 11:55	
Barium		-0.000100	mg/L	0.10						
Boron		0.0214	mg/L	0.10						
Cadmium		-0.000710	mg/L	0.010						
Chromium		-0.00707	mg/L	0.050						
Copper		0.0103	mg/L	0.010						
Lead		-0.0131	mg/L	0.050						
Nickel		-0.00729	mg/L	0.050						
Selenium		-0.0233	mg/L	0.10						
Silver		-0.000690	mg/L	0.010						
Zinc		-0.00108	mg/L	0.010						
Lab ID: ICSAB	10	Interference Check Sample AB							04/24/14 11:59	
Barium		0.451	mg/L	0.10	90	80	120			
Boron		5.41	mg/L	0.10	108	80	120			
Cadmium		0.838	mg/L	0.010	84	80	120			
Chromium		0.433	mg/L	0.050	87	80	120			
Copper		0.451	mg/L	0.010	90	80	120			
Lead		0.871	mg/L	0.050	87	80	120			
Nickel		0.839	mg/L	0.050	84	80	120			
Selenium		0.861	mg/L	0.10	86	80	120			
Silver		0.956	mg/L	0.010	96	80	120			
Zinc		0.892	mg/L	0.010	89	80	120			
Method: SW6010B										Batch: 79212
Lab ID: MB-79212	10	Method Blank				Run: ICP203-B_140424A			04/25/14 03:53	
Barium		ND	mg/kg	0.05						
Boron		ND	mg/kg	0.3						
Cadmium		ND	mg/kg	0.03						
Chromium		ND	mg/kg	0.3						
Copper		0.5	mg/kg	0.4						
Lead		ND	mg/kg	2						
Nickel		ND	mg/kg	0.3						
Selenium		ND	mg/kg	2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14

Project: Not Indicated **Work Order:** B14041341

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**SW6010B**									Batch: 79212	
Lab ID:	**MB-79212**	10	Method Blank				Run: ICP203-B_140424A			04/25/14 03:53	
Silver			ND	mg/kg	0.3						
Zinc			ND	mg/kg	0.3						
Lab ID:	**LCS-79212**	10	Laboratory Control Sample				Run: ICP203-B_140424A			04/25/14 03:57	
Barium			51.6	mg/kg	5.0	103	80	120			
Boron			47.5	mg/kg	5.0	95	80	120			
Cadmium			22.7	mg/kg	5.0	91	80	120			
Chromium			49.4	mg/kg	5.0	99	80	120			
Copper			49.0	mg/kg	5.0	97	80	120			
Lead			47.1	mg/kg	5.0	94	80	120			
Nickel			45.5	mg/kg	5.0	91	80	120			
Selenium			48.8	mg/kg	5.0	98	80	120			
Silver			24.3	mg/kg	5.0	97	80	120			
Zinc			47.2	mg/kg	5.0	94	80	120			
Lab ID:	**SRM2-79212**	10	Standard Reference Material				Run: ICP203-B_140424A			04/25/14 04:01	
Barium			99.1	mg/kg	5.0	99	70	130			
Boron			34.2	mg/kg	5.0		0	0			
Cadmium			90.5	mg/kg	5.0	91	70	130			
Chromium			99.6	mg/kg	5.0	100	70	130			
Copper			95.6	mg/kg	5.0	96	70	130			
Lead			93.8	mg/kg	5.0	94	70	130			
Nickel			93.2	mg/kg	5.0	93	70	130			
Selenium			ND	mg/kg	5.0		70	130			
Silver			96.4	mg/kg	5.0	96	70	130			
Zinc			94.3	mg/kg	5.0	94	70	130			
Lab ID:	**SRM-79212**	10	Standard Reference Material				Run: ICP203-B_140424A			04/25/14 04:04	
Barium			576	mg/kg	5.0	94	80	120			
Boron			74.8	mg/kg	5.0	81	59	120			
Cadmium			112	mg/kg	5.0	82	73	120			
Chromium			65.1	mg/kg	5.0	86	72	120			
Copper			253	mg/kg	5.0	91	77	120			
Lead			166	mg/kg	5.0	89	75	120			
Nickel			47.9	mg/kg	5.0	79	72	120			
Selenium			164	mg/kg	5.0	84	72	120			
Silver			62.9	mg/kg	5.0	92	67	120			
Zinc			185	mg/kg	5.0	87	74	120			
Lab ID:	**B14041726-001ADIL**	10	Serial Dilution				Run: ICP203-B_140424A			04/25/14 05:51	
Barium			21.2	mg/kg	1.0		0	0	3.6	10	
Boron			ND	mg/kg	2.0		0	0		10	
Cadmium			ND	mg/kg	1.0		0	0		10	
Chromium			ND	mg/kg	2.0		0	0		10	
Copper			15.5	mg/kg	2.4		0	0		10	N

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14

Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 79212
Lab ID: B14041726-001ADIL	10	Serial Dilution				Run: ICP203-B_140424A			04/25/14 05:51	
Lead		ND	mg/kg	9.4		0	0		10	
Nickel		ND	mg/kg	1.5		0	0		10	
Selenium		ND	mg/kg	9.4		0	0		10	
Silver		ND	mg/kg	2.0		0	0		10	
Zinc		36.5	mg/kg	1.5		0	0	9.2	10	
Lab ID: B14041726-001APDS	10	Post Digestion/Distillation Spike				Run: ICP203-B_140424A			04/25/14 05:55	
Barium		80.1	mg/kg	1.0	96	75	125			
Boron		58.3	mg/kg	1.0	92	75	125			
Cadmium		27.7	mg/kg	1.0	89	75	125			
Chromium		59.2	mg/kg	1.0	93	75	125			
Copper		71.6	mg/kg	1.0	91	75	125			
Lead		58.5	mg/kg	1.9	90	75	125			
Nickel		56.9	mg/kg	1.0	90	75	125			
Selenium		55.0	mg/kg	1.9	88	75	125			
Silver		29.3	mg/kg	1.0	94	75	125			
Zinc		88.9	mg/kg	1.0	89	75	125			
Lab ID: B14041726-001AMS3	10	Sample Matrix Spike				Run: ICP203-B_140424A			04/25/14 05:59	
Barium		84.9	mg/kg	1.0	103	75	125			
Boron		58.5	mg/kg	1.0	92	75	125			
Cadmium		28.7	mg/kg	1.0	92	75	125			
Chromium		61.3	mg/kg	1.0	96	75	125			
Copper		73.2	mg/kg	1.0	93	75	125			
Lead		60.9	mg/kg	1.9	94	75	125			
Nickel		59.2	mg/kg	1.0	94	75	125			
Selenium		57.1	mg/kg	1.9	91	75	125			
Silver		30.3	mg/kg	1.0	97	75	125			
Zinc		92.6	mg/kg	1.0	95	75	125			
Lab ID: B14041726-001AMSD	10	Sample Matrix Spike Duplicate				Run: ICP203-B_140424A			04/25/14 06:02	
Barium		80.1	mg/kg	1.0	99	75	125	5.8	20	
Boron		55.6	mg/kg	1.0	90	75	125	5.2	20	
Cadmium		27.1	mg/kg	1.0	90	75	125	5.6	20	
Chromium		58.3	mg/kg	1.0	95	75	125	5.0	20	
Copper		69.7	mg/kg	1.0	90	75	125	4.9	20	
Lead		57.5	mg/kg	1.9	91	75	125	5.7	20	
Nickel		55.8	mg/kg	1.0	91	75	125	6.0	20	
Selenium		54.0	mg/kg	1.9	89	75	125	5.6	20	
Silver		29.1	mg/kg	1.0	96	75	125	4.1	20	
Zinc		86.5	mg/kg	1.0	88	75	125	6.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14
Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS202-B_140423A		
Lab ID: QCS		Initial Calibration Verification Standard								04/23/14 09:38
Arsenic		0.0461	mg/L	0.0010	92	90	110			
Lab ID: ICSA		Interference Check Sample A								04/23/14 09:52
Arsenic		2.00E-05	mg/L	0.0010						
Lab ID: ICSAB		Interference Check Sample AB								04/23/14 10:09
Arsenic		0.0102	mg/L	0.0010	102	70	130			
Method: SW6020										Batch: 79132
Lab ID: MB-79132		Method Blank				Run: ICPMS202-B_140423A				04/24/14 19:36
Arsenic		ND	mg/kg	0.03						
Lab ID: B14041342-001ADIL		Serial Dilution				Run: ICPMS202-B_140423A				04/24/14 19:56
Arsenic		ND	mg/kg-dry	6.1		0	0		10	
Lab ID: LCS-79132		Laboratory Control Sample				Run: ICPMS202-B_140423A				04/24/14 19:59
Arsenic		50.2	mg/kg	1.0	101	80	120			
Lab ID: SRM-79132		Standard Reference Material				Run: ICPMS202-B_140423A				04/24/14 20:02
Arsenic		294	mg/kg	1.0	86	72	120			
Lab ID: B14041342-001APDS1		Post Digestion/Distillation Spike				Run: ICPMS202-B_140423A				04/24/14 20:04
Arsenic		142	mg/kg-dry	1.2	80	75	125			
Lab ID: B14041342-001AMS3		Sample Matrix Spike				Run: ICPMS202-B_140423A				04/24/14 20:07
Arsenic		3330	mg/kg-dry	1.3	86	75	125			
Lab ID: B14041342-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS202-B_140423A				04/24/14 20:10
Arsenic		3260	mg/kg-dry	1.3	84	75	125	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14
Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS202-B_140425A		
Lab ID: QCS		Initial Calibration Verification Standard							04/25/14 10:58	
Arsenic		0.0458	mg/L	0.0010	92	90	110			
Lab ID: ICSA		Interference Check Sample A							04/25/14 11:07	
Arsenic		4.00E-05	mg/L	0.0010						
Lab ID: ICSAB		Interference Check Sample AB							04/25/14 11:10	
Arsenic		0.0102	mg/L	0.0010	102	70	130			
Method: SW6020										Batch: 79212
Lab ID: MB-79212		Method Blank				Run: ICPMS202-B_140425A			04/25/14 11:37	
Arsenic		ND	mg/kg	0.03						
Lab ID: B14041726-001ADIL		Serial Dilution				Run: ICPMS202-B_140425A			04/25/14 12:35	
Arsenic		0.501	mg/kg	1.0		0	0		10	N
Lab ID: LCS-79212		Laboratory Control Sample				Run: ICPMS202-B_140425A			04/25/14 12:53	
Arsenic		51.4	mg/kg	1.0	103	80	120			
Lab ID: SRM2-79212		Standard Reference Material				Run: ICPMS202-B_140425A			04/25/14 12:56	
Arsenic		ND	mg/kg	1.0		50	130			
Lab ID: SRM-79212		Standard Reference Material				Run: ICPMS202-B_140425A			04/25/14 12:59	
Arsenic		293	mg/kg	1.0	86	72	120			
Lab ID: B14041726-001APDS1		Post Digestion/Distillation Spike				Run: ICPMS202-B_140425A			04/25/14 13:01	
Arsenic		5.90	mg/kg	1.0	89	75	125			
Lab ID: B14041726-001AMS3		Sample Matrix Spike				Run: ICPMS202-B_140425A			04/25/14 13:04	
Arsenic		56.5	mg/kg	1.0	90	75	125			
Lab ID: B14041726-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS202-B_140425A			04/25/14 13:07	
Arsenic		56.9	mg/kg	1.0	93	75	125	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc
Project: Not Indicated

Report Date: 04/29/14
Work Order: B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7196A										Batch: 79104
Lab ID: MB-79104		Method Blank				Run: SPEC_140418C				04/18/14 15:50
Chromium, Hexavalent - Soluble		ND	mg/kg	0.1						
Lab ID: B14041341-001AMS		Sample Matrix Spike				Run: SPEC_140418C				04/18/14 15:50
Chromium, Hexavalent - Soluble		0.951	mg/kg-dry	5.0	88	70	130			
Lab ID: B14041341-001AMSD		Sample Matrix Spike Duplicate				Run: SPEC_140418C				04/18/14 15:50
Chromium, Hexavalent - Soluble		0.905	mg/kg-dry	5.0	84	70	130		20	
Lab ID: B14041341-001ADUP		Sample Duplicate				Run: SPEC_140418C				04/18/14 15:50
Chromium, Hexavalent - Soluble		ND	mg/kg-dry	0.0011					30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14

Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8270C										Batch: 79061
Lab ID: MB-79061	20	Method Blank				Run: SV5973N2.I_140422A				04/22/14 22:56
2-Methylnaphthalene		ND	mg/kg	0.0033						
Acenaphthene		ND	mg/kg	0.0033						
Acenaphthylene		ND	mg/kg	0.0033						
Anthracene		ND	mg/kg	0.0033						
Benzo(a)anthracene		ND	mg/kg	0.0033						
Benzo(a)pyrene		ND	mg/kg	0.0033						
Benzo(b)fluoranthene		ND	mg/kg	0.0033						
Benzo(g,h,i)perylene		ND	mg/kg	0.0033						
Benzo(k)fluoranthene		ND	mg/kg	0.0033						
Chrysene		ND	mg/kg	0.0033						
Dibenzo(a,h)anthracene		ND	mg/kg	0.0033						
Fluoranthene		ND	mg/kg	0.0033						
Fluorene		ND	mg/kg	0.0033						
Indeno(1,2,3-cd)pyrene		ND	mg/kg	0.0033						
Naphthalene		ND	mg/kg	0.0033						
Phenanthrene		ND	mg/kg	0.0033						
Pyrene		ND	mg/kg	0.0033						
Surr: 2-Fluorobiphenyl				0.0033	48	47	110			
Surr: Nitrobenzene-d5				0.0033	52	43	105			
Surr: Terphenyl-d14				0.0033	57	51	117			
Lab ID: B14041346-010AMS	20	Sample Matrix Spike				Run: SV5973N2.I_140422A				04/23/14 02:54
2-Methylnaphthalene		0.182	mg/kg-dry	0.0038	90	54	113			
Acenaphthene		0.138	mg/kg-dry	0.0038	72	54	111			
Acenaphthylene		0.141	mg/kg-dry	0.0038	74	53	113			
Anthracene		0.142	mg/kg-dry	0.0038	74	66	109			
Benzo(a)anthracene		0.157	mg/kg-dry	0.0038	82	51	121			
Benzo(a)pyrene		0.177	mg/kg-dry	0.0038	93	62	114			
Benzo(b)fluoranthene		0.161	mg/kg-dry	0.0038	84	50	128			
Benzo(g,h,i)perylene		0.138	mg/kg-dry	0.0038	72	62	116			
Benzo(k)fluoranthene		0.153	mg/kg-dry	0.0038	80	47	127			
Chrysene		0.137	mg/kg-dry	0.0038	70	56	119			
Dibenzo(a,h)anthracene		0.173	mg/kg-dry	0.0038	90	63	113			
Fluoranthene		0.165	mg/kg-dry	0.0038	86	70	115			
Fluorene		0.155	mg/kg-dry	0.0038	77	53	118			
Indeno(1,2,3-cd)pyrene		0.184	mg/kg-dry	0.0038	96	57	119			
Naphthalene		0.138	mg/kg-dry	0.0038	72	50	109			
Phenanthrene		0.170	mg/kg-dry	0.0038	82	63	116			
Pyrene		0.138	mg/kg-dry	0.0038	72	62	113			
Surr: 2-Fluorobiphenyl				0.0038	67	47	110			
Surr: Nitrobenzene-d5				0.0038	68	43	105			
Surr: Terphenyl-d14				0.0038	74	51	117			
Lab ID: B14041346-010AMSD	20	Sample Matrix Spike Duplicate				Run: SV5973N2.I_140422A				04/23/14 03:24
2-Methylnaphthalene		0.186	mg/kg-dry	0.0038	92	54	113	2.5	40	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc **Report Date:** 04/29/14

Project: Not Indicated **Work Order:** B14041341

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8270C										Batch: 79061
Lab ID: B14041346-010AMSD	20	Sample Matrix Spike Duplicate				Run: SV5973N2.I_140422A			04/23/14 03:24	
Acenaphthene		0.143	mg/kg-dry	0.0038	75	54	111	3.5	40	
Acenaphthylene		0.146	mg/kg-dry	0.0038	76	53	113	3.2	40	
Anthracene		0.146	mg/kg-dry	0.0038	77	66	109	2.9	40	
Benzo(a)anthracene		0.168	mg/kg-dry	0.0038	88	51	121	7.0	40	
Benzo(a)pyrene		0.182	mg/kg-dry	0.0038	95	62	114	3.0	40	
Benzo(b)fluoranthene		0.177	mg/kg-dry	0.0038	93	50	128	9.7	40	
Benzo(g,h,i)perylene		0.143	mg/kg-dry	0.0038	75	62	116	4.1	40	
Benzo(k)fluoranthene		0.153	mg/kg-dry	0.0038	80	47	127	0.2	40	
Chrysene		0.140	mg/kg-dry	0.0038	72	56	119	2.5	40	
Dibenzo(a,h)anthracene		0.178	mg/kg-dry	0.0038	93	63	113	3.3	40	
Fluoranthene		0.172	mg/kg-dry	0.0038	90	70	115	3.9	40	
Fluorene		0.160	mg/kg-dry	0.0038	80	53	118	3.2	40	
Indeno(1,2,3-cd)pyrene		0.194	mg/kg-dry	0.0038	101	57	119	5.3	40	
Naphthalene		0.146	mg/kg-dry	0.0038	76	50	109	5.4	40	
Phenanthrene		0.176	mg/kg-dry	0.0038	85	63	116	3.5	40	
Pyrene		0.143	mg/kg-dry	0.0038	75	62	113	3.8	40	
Surr: 2-Fluorobiphenyl				0.0038	70	47	110			
Surr: Nitrobenzene-d5				0.0038	70	43	105			
Surr: Terphenyl-d14				0.0038	79	51	117			
Lab ID: LCS-79061	20	Laboratory Control Sample				Run: SV5973N2.I_140422A			04/23/14 02:25	
2-Methylnaphthalene		0.126	mg/kg	0.0033	75	54	113			
Acenaphthene		0.106	mg/kg	0.0033	63	54	111			
Acenaphthylene		0.104	mg/kg	0.0033	62	53	113			
Anthracene		0.114	mg/kg	0.0033	68	66	109			
Benzo(a)anthracene		0.119	mg/kg	0.0033	71	51	121			
Benzo(a)pyrene		0.137	mg/kg	0.0033	82	62	114			
Benzo(b)fluoranthene		0.123	mg/kg	0.0033	73	50	128			
Benzo(g,h,i)perylene		0.109	mg/kg	0.0033	65	62	116			
Benzo(k)fluoranthene		0.120	mg/kg	0.0033	72	47	127			
Chrysene		0.105	mg/kg	0.0033	63	56	119			
Dibenzo(a,h)anthracene		0.137	mg/kg	0.0033	82	63	113			
Fluoranthene		0.122	mg/kg	0.0033	73	70	115			
Fluorene		0.105	mg/kg	0.0033	63	53	118			
Indeno(1,2,3-cd)pyrene		0.143	mg/kg	0.0033	86	57	119			
Naphthalene		0.107	mg/kg	0.0033	64	50	109			
Phenanthrene		0.114	mg/kg	0.0033	68	63	116			
Pyrene		0.104	mg/kg	0.0033	62	62	113			
Surr: 2-Fluorobiphenyl				0.0033	62	47	110			
Surr: Nitrobenzene-d5				0.0033	73	43	105			
Surr: Terphenyl-d14				0.0033	72	51	117			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist

Analytica Group Inc

B14041341

Login completed by: Tony Valero

Date Received: 4/15/2014

Reviewed by: BL2000\jklier

Received by: mlk

Reviewed Date: 4/16/2014

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	2.8°C Blue Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

ANALYTICA SUBCONTRACTOR CHAIN OF CUSTODY

Analytica Group, LLC-Thornton
12189 Pennsylvania Street
Thornton, CO 80241
Report to: Carissa Cumine
phone: 303-469-8868

Standard
TAT

COC Number: 159290-2

PO# T14927

Testing Laboratory:

Energy Labs

Client Identifier: **C.F. C-1 Pit**

B1404341
-001

Analytica ID	Test Method	Method Description	Sample Da	Matrix	Comments
B1404059-01D	3500-Cr-B	SM3500-CrB - Chromium, Colorimetric M	4/9/2014 16:10	Soil	Cr III Calculation

FedEXNDA Blue Ice
2.8 TB Seal-C

Analytica Relinquished by:	Date/Time:	Received by:	Date/Time:
JR	4/14/14 16:00	Michelle Kluhammer	4/15/14 9:15
Relinquised by:	Date/Time:	Received by:	Date/Time:

Log for Hex Cr & Cr^{+3}
SE 4/15/14

ANALYTICA SUBCONTRACTOR CHAIN OF CUSTODY

Analytica Group, LLC-Thornton
12189 Pennsylvania Street
Thornton, CO 80241
Report to: Carissa Cumine
phone: 303-469-8868

COC Number: 159290-2

PO# T14927

Testing Laboratory:
Energy Laboratories
1120 South 27th St.
Billings, MT 59101-0916
phone: 800-735-4489 x6269

Client Identifier: **C.F. C-1 Pit**

B1404134

Analytica ID	Test Method	Method Description	Sample Da	Matrix	Comments
B1404059-01D	SAR	Sodium Absorption Ratio	4/9/2014 16:10	Soil	001 ~~002~~ TV
B1404059-01D	6020A	SW6020 - ICPMS - Low Level Metals - Sol	4/9/2014 16:10	Soil	Low Level Arsenic
B1404059-01D	7196_A	Chromium, Hexavalent (Colorimetric) - Cr	4/9/2014 16:10	Soil	
B1404059-01D	6010B	SW6010B - ICP - Total ICP Energy	4/9/2014 16:10	Soil	Total Ba, B, Cd, Cr, Cu, Pb, Ni, Se, Ag, Zn
B1404059-01D	8270C	SW8270C - Semivolatile Organics by GC/	4/9/2014 16:10	Soil	PAHs by SIM
B1404059-01D	ASTMD2216	ASTM D2216 - Pmoist-energy	4/9/2014 16:10	Soil	

Client Identifier: **C.F. C-1 Ars #1**

Analytica ID	Test Method	Method Description	Sample Da	Matrix	Comments
B1404059-02A	6020A	SW6020 - ICPMS - Low Level Metals - Sol	4/9/2014 16:15	Soil	Low Level Arsenic ~~002~~
B1404059-02A	ASTMD2216	ASTM D2216 - Pmoist-energy	4/9/2014 16:15	Soil	

Client Identifier: **C.F. C-1 Ars #2**

Analytica ID	Test Method	Method Description	Sample Da	Matrix	Comments
B1404059-03A	6020A	SW6020 - ICPMS - Low Level Metals - Sol	4/9/2014 16:20	Soil	TV 003 Low Level Arsenic ~~004~~
B1404059-03A	ASTMD2216	ASTM D2216 - Pmoist-energy	4/9/2014 16:20	Soil	

FedEXNDA 2.8°C Blue Ice Seal-C

Analytica Relinquised by:	Date/Time:	Received by:	Date/Time:
[signature]	4/14/14 16:00	Michelle Kluehammer	4/15/14 9:15
Relinquised by:	**Date/Time:**	**Received by:**	**Date/Time:**

Analytica Chain of Custody Form

ANALYTICA GROUP®

12189 Pennsylvania St.
Thornton, CO 80241
(303) 469-8868
(303) 469-5254 fax

4307 Arctic Boulevard
Anchorage, AK 99503
(907) 258-2155
(907) 258-6634 fax

475 Hall St.
Fairbanks, AK 99701
(907) 456-3116
(907) 456 3125 fax

701 E. Parks Hwy., Suite 203
Wasilla, AK 99654
(907) 373-5440

Chain of Custody No: 088832

Client Name & Address: Environmental Services Inc

Report to: Heydenberk

Phone No: (970) 948-8978

Fax No:

E-mail: esi.craig@sopris.net

Public Water System (PWS) ID#:

Project Name: Maralex Camio Federal C-1

Turnaround Time for Results (TAT)

X Standard ___ Expedited (< 10 days, prior authorization required)
___ Routine ___ Non-Routine (please specify due date below; add'tl charges may apply)

Requested Due Date for Results:

Section to be Completed by Analytica

Quote ID:

LGN: B1404059

Account #: Check Credit Card

Invoice to Name & Address: Maralex Mr Jim Graves

P.O. or Contract No:

Special Instructions/Comments: Table 910-1 = Low-level Arsenic Mercury
VOC/PAH = SIM MDLs

Kit Prep/Shipping Charge: $

Requested Analysis/Method

Client Sample Identification / Location	Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	Table 910-1 (Lot #: Pres:)	Arsenic (Lot #: Pres:)											Field Preserved	Field Filtered	MS/MSD ?
C.F. C-1 Pit	4/9/14	4:10	S	6	X														
C.F. C-1 Ars #1		4:15	S	1		X													
C.F. C-1 Ars #2		4:20	S	1		X													

Relinquished by:	Date	Time	Received by:	Date	Time
[illegible]	4/9/14	17:00	[illegible]	4/11/14	10:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Name of Sampler: (printed)

Section to be completed by Analytica

	THO	ANC	FBKS	WAS
Condition of Custody Seal?	None			
Initialed by:	—			
Temp/Loc:	2.5			
Thermo ID#:				
Shipped Via:	F			

Version 2.0