

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-28700-1

Client Project/Site: Satralloy - Creek Study - Event 14

For:

Golder Associates Inc.

2600 Tiller Lane

Suite C

Columbus, Ohio 43231

Attn: Mr. Bob Ireson



Authorized for release by:

9/17/2013 9:21:30 PM

Kris Brooks, Project Manager II

kris.brooks@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

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Qualifiers

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Job ID: 240-28700-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Golder Associates Inc.

Project: Satralloy - Creek Study - Event 14

Report Number: 240-28700-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 09/06/2013 and 09/06/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 and 3.0 C.

DISSOLVED METALS (ICPMS)

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 09/09/2013 and analyzed on 09/10/2013.

Calcium failed the recovery criteria low for the MS of sample SC02DMS (240-28756-1) in batch 240-100933. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICPMS)

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The

Case Narrative

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TestAmerica Job ID: 240-28700-1

Job ID: 240-28700-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

samples were prepared on 09/09/2013 and analyzed on 09/10/2013.

Antimony and Zinc were detected in method blank MB 240-100583/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Calcium failed the recovery criteria low for the MS of sample SC02DMS (240-28756-1) in batch 240-100933. Calcium failed the recovery criteria low for the MSD of sample SC02DMSD (240-28756-1) in batch 240-100933. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 09/09/2013 and analyzed on 09/10/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

MERCURY

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for mercury in accordance with EPA Method 245.1. The samples were prepared on 09/09/2013 and analyzed on 09/10/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

HARDNESS

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for hardness in accordance with EPA Method 130.2. The samples were analyzed on 09/10/2013.

No difficulties were encountered during the hardness analysis. All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 09/09/2013 and 09/11/2013.

No difficulties were encountered during the TDS analysis. All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 09/09/2013, 09/10/2013 and 09/11/2013.

Total Suspended Solids exceeded the RPD limit for the duplicate of sample SC01PDU (240-28756-4). Refer to the QC report for details.

No other difficulties were encountered during the TSS analysis. All other quality control parameters were within the acceptance limits.

ANIONS

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GCFD (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 09/06/2013 and 09/07/2013.

Nitrate as N failed the recovery criteria high for the MS of sample SC02DMS (240-28756-1) in batch 240-100508. Refer to the QC report for details.

Case Narrative

Client: Golder Associates Inc.
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TestAmerica Job ID: 240-28700-1

Job ID: 240-28700-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No other difficulties were encountered during the anions analysis. All other quality control parameters were within the acceptance limits.

ANIONS

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GC09D (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 09/06/2013, 09/07/2013 and 09/10/2013.

Chloride failed the recovery criteria high for the MSD of sample GC09PMSD (240-28700-2) in batch 240-100507. Chloride and Sulfate failed the recovery criteria high for the MS of sample SC02DMS (240-28756-1) in batch 240-100507. Sulfate failed the recovery criteria low for the MS of sample SC02PMS (240-28756-2) in batch 240-100861. Chloride failed the recovery criteria high. Sulfate failed the recovery criteria low for the MSD of sample SC02PMSD (240-28756-2) in batch 240-100861. Chloride failed the recovery criteria high. Refer to the QC report for details.

Samples GC09P (240-28700-2)[5X], SC02P (240-28700-2)[5X], GC09D (240-28700-3)[5X] and SC01P (240-28700-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis. All other quality control parameters were within the acceptance limits.

ALKALINITY

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GC09D (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for alkalinity in accordance with EPA Method 310.1. The samples were analyzed on 09/12/2013.

No difficulties were encountered during the alkalinity analysis. All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GC09D (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for hexavalent chromium in accordance with SM 3500 CR D. The samples were analyzed on 09/06/2013.

No difficulties were encountered during the hexavalent chromium analysis. All quality control parameters were within the acceptance limits.

TOTAL PHOSPHORUS

Samples GC09D (240-28700-1), SC02D (240-28756-1), GC09P (240-28700-2), SC02P (240-28756-2), GC09D (240-28700-3), SC01D (240-28756-3) and SC01P (240-28756-4) were analyzed for total phosphorus in accordance with EPA Method 365.1. The samples were prepared and analyzed on 09/09/2013 and 09/13/2013.

No other difficulties were encountered during the total phosphorus analysis. All other quality control parameters were within the acceptance limits.

Method Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL CAN
200.8	ICPMS Metals by 200.8	EPA	TAL CAN
245.1	Mercury (CVAA)	EPA	TAL CAN
130.2	Hardness, Total (mg/l as CaCO ₃)	MCAWW	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
310.1	Alkalinity	MCAWW	TAL CAN
365.1	Phosphorus, Total	EPA	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CAN
SM 3500 CR D	Chromium, Hexavalent	SM	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Golder Associates Inc.

TestAmerica Job ID: 240-28700-1

Project/Site: Satralloy - Creek Study - Event 14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-28700-1	GC09D	Water	09/05/13 14:00	09/06/13 09:15
240-28700-2	GC09P	Water	09/05/13 14:05	09/06/13 09:15
240-28700-3	GCFD	Water	09/05/13 14:05	09/06/13 09:15
240-28756-1	SC02D	Water	09/06/13 10:30	09/06/13 15:12
240-28756-2	SC02P	Water	09/06/13 10:40	09/06/13 15:12
240-28756-3	SC01D	Water	09/06/13 11:30	09/06/13 15:12
240-28756-4	SC01P	Water	09/06/13 11:40	09/06/13 15:12

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09D

Lab Sample ID: 240-28700-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	34		5.0	5.0	ug/L	1			200.8	Total
										Recoverable
Chromium	26		2.0	2.0	ug/L	1			200.8	Total
										Recoverable
Calcium	78000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Magnesium	18000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Potassium	9300		1000	1000	ug/L	1			200.8	Total
										Recoverable
Sodium	11000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Barium	33		5.0	5.0	ug/L	1			200.8	Dissolved
Chromium	26		2.0	2.0	ug/L	1			200.8	Dissolved
Calcium	80000		1000	1000	ug/L	1			200.8	Dissolved
Magnesium	18000		1000	1000	ug/L	1			200.8	Dissolved
Potassium	9400		1000	1000	ug/L	1			200.8	Dissolved
Sodium	11000		1000	1000	ug/L	1			200.8	Dissolved
Hardness as calcium carbonate	260		5.0	5.0	mg/L	1			130.2	Total/NA
Chloride	2.9		1.0	1.0	mg/L	1			300.0	Total/NA
Nitrate as N	0.22		0.10	0.10	mg/L	1			300.0	Total/NA
Sulfate	88		1.0	1.0	mg/L	1			300.0	Total/NA
Alkalinity	210		5.0	5.0	mg/L	1			310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	5.0	mg/L	1			310.1	Total/NA
Total Dissolved Solids	360		10	10	mg/L	1			SM 2540C	Total/NA
Cr (VI)	0.025		0.010	0.0020	mg/L	1			SM 3500 CR D	Total/NA

Client Sample ID: GC09P

Lab Sample ID: 240-28700-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	150		50	50	ug/L	1			200.8	Total
										Recoverable
Barium	48		5.0	5.0	ug/L	1			200.8	Total
										Recoverable
Manganese	49		5.0	5.0	ug/L	1			200.8	Total
										Recoverable
Calcium	170000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Magnesium	83000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Potassium	5000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Sodium	41000		1000	1000	ug/L	1			200.8	Total
										Recoverable
Barium	47		5.0	5.0	ug/L	1			200.8	Dissolved
Manganese	15		5.0	5.0	ug/L	1			200.8	Dissolved
Calcium	170000		1000	1000	ug/L	1			200.8	Dissolved
Magnesium	81000		1000	1000	ug/L	1			200.8	Dissolved
Potassium	4900		1000	1000	ug/L	1			200.8	Dissolved
Sodium	40000		1000	1000	ug/L	1			200.8	Dissolved
Hardness as calcium carbonate	780		10	10	mg/L	1			130.2	Total/NA
Chloride	32		1.0	1.0	mg/L	1			300.0	Total/NA
Nitrate as N	0.31		0.10	0.10	mg/L	1			300.0	Total/NA
Sulfate	700		5.0	5.0	mg/L	5			300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09P (Continued)

Lab Sample ID: 240-28700-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	170		5.0	5.0	mg/L	1		310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	170		5.0	5.0	mg/L	1		310.1	Total/NA
Total Dissolved Solids	1200		10	10	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	24		4.0	4.0	mg/L	1		SM 2540D	Total/NA

Client Sample ID: GCFD

Lab Sample ID: 240-28700-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	670		50	50	ug/L	1		200.8	Total Recoverable
Barium	50		5.0	5.0	ug/L	1		200.8	Total Recoverable
Chromium	2.0		2.0	2.0	ug/L	1		200.8	Total Recoverable
Copper	2.0		2.0	2.0	ug/L	1		200.8	Total Recoverable
Iron	670		100	100	ug/L	1		200.8	Total Recoverable
Manganese	88		5.0	5.0	ug/L	1		200.8	Total Recoverable
Calcium	160000		1000	1000	ug/L	1		200.8	Total Recoverable
Magnesium	79000		1000	1000	ug/L	1		200.8	Total Recoverable
Potassium	4800		1000	1000	ug/L	1		200.8	Total Recoverable
Sodium	39000		1000	1000	ug/L	1		200.8	Total Recoverable
Barium	47		5.0	5.0	ug/L	1		200.8	Dissolved
Manganese	15		5.0	5.0	ug/L	1		200.8	Dissolved
Calcium	170000		1000	1000	ug/L	1		200.8	Dissolved
Magnesium	83000		1000	1000	ug/L	1		200.8	Dissolved
Potassium	5000		1000	1000	ug/L	1		200.8	Dissolved
Sodium	42000		1000	1000	ug/L	1		200.8	Dissolved
Hardness as calcium carbonate	780		10	10	mg/L	1		130.2	Total/NA
Chloride	32		1.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.30		0.10	0.10	mg/L	1		300.0	Total/NA
Sulfate	700		5.0	5.0	mg/L	5		300.0	Total/NA
Alkalinity	170		5.0	5.0	mg/L	1		310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	160		5.0	5.0	mg/L	1		310.1	Total/NA
Carbonate Alkalinity as CaCO3	5.5		5.0	5.0	mg/L	1		310.1	Total/NA
Total Dissolved Solids	1200		10	10	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		4.0	4.0	mg/L	1		SM 2540D	Total/NA
Cr (VI)	0.0029	J	0.010	0.0020	mg/L	1		SM 3500 CR D	Total/NA

Client Sample ID: SC02D

Lab Sample ID: 240-28756-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	600		50	50	ug/L	1		200.8	Total Recoverable
Barium	130		5.0	5.0	ug/L	1		200.8	Total Recoverable
Chromium	37		2.0	2.0	ug/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02D (Continued)

Lab Sample ID: 240-28756-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.6		2.0	2.0	ug/L	1		200.8	Total Recoverable
Nickel	4.7		2.0	2.0	ug/L	1		200.8	Total Recoverable
Calcium	170000		1000	1000	ug/L	1		200.8	Total Recoverable
Potassium	19000		1000	1000	ug/L	1		200.8	Total Recoverable
Sodium	23000		1000	1000	ug/L	1		200.8	Total Recoverable
Aluminum	630		50	50	ug/L	1		200.8	Dissolved
Barium	130		5.0	5.0	ug/L	1		200.8	Dissolved
Chromium	38		2.0	2.0	ug/L	1		200.8	Dissolved
Copper	4.7		2.0	2.0	ug/L	1		200.8	Dissolved
Nickel	4.4		2.0	2.0	ug/L	1		200.8	Dissolved
Calcium	180000		1000	1000	ug/L	1		200.8	Dissolved
Potassium	19000		1000	1000	ug/L	1		200.8	Dissolved
Sodium	24000		1000	1000	ug/L	1		200.8	Dissolved
Hardness as calcium carbonate	450		10	10	mg/L	1		130.2	Total/NA
Nitrite as N	0.66		0.10	0.10	mg/L	1		300.0	Total/NA
Nitrate as N	0.48		0.10	0.10	mg/L	1		300.0	Total/NA
Sulfate	7.9		1.0	1.0	mg/L	1		300.0	Total/NA
Alkalinity	490		5.0	5.0	mg/L	1		310.1	Total/NA
Carbonate Alkalinity as CaCO3	59		5.0	5.0	mg/L	1		310.1	Total/NA
Total Dissolved Solids	540		20	20	mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.038		0.010	0.0020	mg/L	1		SM 3500 CR D	Total/NA

Client Sample ID: SC02P

Lab Sample ID: 240-28756-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	420		50	50	ug/L	1		200.8	Total Recoverable
Barium	83		5.0	5.0	ug/L	1		200.8	Total Recoverable
Chromium	16		2.0	2.0	ug/L	1		200.8	Total Recoverable
Copper	2.7		2.0	2.0	ug/L	1		200.8	Total Recoverable
Manganese	25		5.0	5.0	ug/L	1		200.8	Total Recoverable
Nickel	2.4		2.0	2.0	ug/L	1		200.8	Total Recoverable
Calcium	130000		1000	1000	ug/L	1		200.8	Total Recoverable
Magnesium	22000		1000	1000	ug/L	1		200.8	Total Recoverable
Potassium	11000		1000	1000	ug/L	1		200.8	Total Recoverable
Sodium	39000		1000	1000	ug/L	1		200.8	Total Recoverable
Barium	36		5.0	5.0	ug/L	1		200.8	Dissolved
Chromium	15		2.0	2.0	ug/L	1		200.8	Dissolved
Copper	2.0		2.0	2.0	ug/L	1		200.8	Dissolved
Calcium	68000		1000	1000	ug/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02P (Continued)

Lab Sample ID: 240-28756-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	17000		1000	1000	ug/L	1		200.8	Dissolved
Potassium	11000		1000	1000	ug/L	1		200.8	Dissolved
Sodium	41000		1000	1000	ug/L	1		200.8	Dissolved
Hardness as calcium carbonate	540		10	10	mg/L	1		130.2	Total/NA
Chloride	23		1.0	1.0	mg/L	1		300.0	Total/NA
Nitrite as N	0.46		0.10	0.10	mg/L	1		300.0	Total/NA
Nitrate as N	0.56		0.10	0.10	mg/L	1		300.0	Total/NA
Sulfate	200		5.0	5.0	mg/L	5		300.0	Total/NA
Alkalinity	32		5.0	5.0	mg/L	1		310.1	Total/NA
Carbonate Alkalinity as CaCO3	31		5.0	5.0	mg/L	1		310.1	Total/NA
Total Dissolved Solids	460		10	10	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	180		4.0	4.0	mg/L	1		SM 2540D	Total/NA
Cr (VI)	0.017		0.010	0.0020	mg/L	1		SM 3500 CR D	Total/NA

Client Sample ID: SC01D

Lab Sample ID: 240-28756-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	77		50	50	ug/L	1		200.8	Total Recoverable
Barium	23		5.0	5.0	ug/L	1		200.8	Total Recoverable
Chromium	34		2.0	2.0	ug/L	1		200.8	Total Recoverable
Calcium	38000		1000	1000	ug/L	1		200.8	Total Recoverable
Magnesium	4700		1000	1000	ug/L	1		200.8	Total Recoverable
Potassium	7300		1000	1000	ug/L	1		200.8	Total Recoverable
Sodium	11000		1000	1000	ug/L	1		200.8	Total Recoverable
Barium	22		5.0	5.0	ug/L	1		200.8	Dissolved
Chromium	33		2.0	2.0	ug/L	1		200.8	Dissolved
Calcium	36000		1000	1000	ug/L	1		200.8	Dissolved
Magnesium	4600		1000	1000	ug/L	1		200.8	Dissolved
Potassium	7300		1000	1000	ug/L	1		200.8	Dissolved
Sodium	11000		1000	1000	ug/L	1		200.8	Dissolved
Hardness as calcium carbonate	100		5.0	5.0	mg/L	1		130.2	Total/NA
Chloride	1.7		1.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.34		0.10	0.10	mg/L	1		300.0	Total/NA
Sulfate	37		1.0	1.0	mg/L	1		300.0	Total/NA
Alkalinity	92		5.0	5.0	mg/L	1		310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	91		5.0	5.0	mg/L	1		310.1	Total/NA
Total Dissolved Solids	170		10	10	mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.027		0.010	0.0020	mg/L	1		SM 3500 CR D	Total/NA

Client Sample ID: SC01P

Lab Sample ID: 240-28756-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	930		50	50	ug/L	1		200.8	Total Recoverable
Barium	54		5.0	5.0	ug/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01P (Continued)

Lab Sample ID: 240-28756-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	13		2.0	2.0	ug/L	1		200.8	Total Recoverable
Copper	2.5		2.0	2.0	ug/L	1		200.8	Total Recoverable
Iron	840		100	100	ug/L	1		200.8	Total Recoverable
Manganese	81		5.0	5.0	ug/L	1		200.8	Total Recoverable
Nickel	2.0		2.0	2.0	ug/L	1		200.8	Total Recoverable
Zinc	25	B	20	20	ug/L	1		200.8	Total Recoverable
Calcium	97000		1000	1000	ug/L	1		200.8	Total Recoverable
Magnesium	28000		1000	1000	ug/L	1		200.8	Total Recoverable
Potassium	5000		1000	1000	ug/L	1		200.8	Total Recoverable
Sodium	37000		1000	1000	ug/L	1		200.8	Total Recoverable
Barium	44		5.0	5.0	ug/L	1		200.8	Dissolved
Chromium	14		2.0	2.0	ug/L	1		200.8	Dissolved
Calcium	87000		1000	1000	ug/L	1		200.8	Dissolved
Magnesium	24000		1000	1000	ug/L	1		200.8	Dissolved
Potassium	5700		1000	1000	ug/L	1		200.8	Dissolved
Sodium	36000		1000	1000	ug/L	1		200.8	Dissolved
Hardness as calcium carbonate	330		5.0	5.0	mg/L	1		130.2	Total/NA
Chloride	25		1.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.44		0.10	0.10	mg/L	1		300.0	Total/NA
Sulfate	220		5.0	5.0	mg/L	5		300.0	Total/NA
Alkalinity	150		5.0	5.0	mg/L	1		310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	150		5.0	5.0	mg/L	1		310.1	Total/NA
Total Dissolved Solids	670		10	10	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	45		4.0	4.0	mg/L	1		SM 2540D	Total/NA
Cr (VI)	0.0042	J	0.010	0.0020	mg/L	1		SM 3500 CR D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09D

Lab Sample ID: 240-28700-1

Date Collected: 09/05/13 14:00

Matrix: Water

Date Received: 09/06/13 09:15

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 14:02	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Barium	34		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Chromium	26		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 14:02	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:02	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 14:02	1
Calcium	78000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:02	1
Magnesium	18000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:02	1
Potassium	9300		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:02	1
Sodium	11000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:02	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 16:16	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Barium	33		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Chromium	26		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 16:16	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:16	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 16:16	1
Calcium	80000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:16	1
Magnesium	18000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:16	1
Potassium	9400		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:16	1
Sodium	11000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:16	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:40	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09D

Lab Sample ID: 240-28700-1

Date Collected: 09/05/13 14:00

Matrix: Water

Date Received: 09/06/13 09:15

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	260		5.0	5.0	mg/L			09/10/13 09:17	1
Chloride	2.9		1.0	1.0	mg/L			09/06/13 14:52	1
Nitrite as N	<0.10		0.10	0.10	mg/L			09/06/13 14:52	1
Nitrate as N	0.22		0.10	0.10	mg/L			09/06/13 14:52	1
Sulfate	88		1.0	1.0	mg/L			09/06/13 14:52	1
Alkalinity	210		5.0	5.0	mg/L			09/12/13 14:54	1
Bicarbonate Alkalinity as CaCO3	210		5.0	5.0	mg/L			09/12/13 14:54	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 14:54	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 06:49	09/13/13 13:38	1
Total Dissolved Solids	360		10	10	mg/L			09/09/13 15:29	1
Total Suspended Solids	<4.0		4.0	4.0	mg/L			09/09/13 10:44	1
Cr (VI)	0.025		0.010	0.0020	mg/L			09/06/13 13:13	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09P

Lab Sample ID: 240-28700-2

Date Collected: 09/05/13 14:05

Matrix: Water

Date Received: 09/06/13 09:15

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Aluminum	150		50	50	ug/L		09/09/13 07:36	09/10/13 14:09	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Barium	48		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Chromium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 14:09	1
Manganese	49		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:09	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 14:09	1
Calcium	170000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:09	1
Magnesium	83000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:09	1
Potassium	5000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:09	1
Sodium	41000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:09	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 16:23	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Barium	47		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Chromium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Iron	<100	L	100	100	ug/L		09/09/13 07:36	09/10/13 16:23	1
Manganese	15		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:23	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 16:23	1
Calcium	170000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:23	1
Magnesium	81000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:23	1
Potassium	4900		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:23	1
Sodium	40000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:23	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:42	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09P

Lab Sample ID: 240-28700-2

Date Collected: 09/05/13 14:05

Matrix: Water

Date Received: 09/06/13 09:15

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	780		10	10	mg/L			09/10/13 09:21	1
Chloride	32		1.0	1.0	mg/L			09/06/13 15:08	1
Nitrite as N	<0.10		0.10	0.10	mg/L			09/06/13 15:08	1
Nitrate as N	0.31		0.10	0.10	mg/L			09/06/13 15:08	1
Sulfate	700		5.0	5.0	mg/L			09/10/13 15:33	5
Alkalinity	170		5.0	5.0	mg/L			09/12/13 15:03	1
Bicarbonate Alkalinity as CaCO3	170		5.0	5.0	mg/L			09/12/13 15:03	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 15:03	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 06:51	09/13/13 13:38	1
Total Dissolved Solids	1200		10	10	mg/L			09/09/13 15:29	1
Total Suspended Solids	24		4.0	4.0	mg/L			09/09/13 10:44	1
Cr (VI)	<0.0020		0.010	0.0020	mg/L			09/06/13 13:15	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GCFD

Lab Sample ID: 240-28700-3

Date Collected: 09/05/13 14:05

Matrix: Water

Date Received: 09/06/13 09:15

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Aluminum	670		50	50	ug/L		09/09/13 07:36	09/10/13 14:16	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Barium	50		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Chromium	2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Copper	2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Iron	670		100	100	ug/L		09/09/13 07:36	09/10/13 14:16	1
Manganese	88		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:16	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 14:16	1
Calcium	160000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:16	1
Magnesium	79000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:16	1
Potassium	4800		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:16	1
Sodium	39000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:16	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 16:31	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Barium	47		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Chromium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Iron	<100	L	100	100	ug/L		09/09/13 07:36	09/10/13 16:31	1
Manganese	15		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:31	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 16:31	1
Calcium	170000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:31	1
Magnesium	83000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:31	1
Potassium	5000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:31	1
Sodium	42000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:31	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:43	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GCFD

Lab Sample ID: 240-28700-3

Date Collected: 09/05/13 14:05

Matrix: Water

Date Received: 09/06/13 09:15

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	780		10	10	mg/L			09/10/13 09:24	1
Chloride	32		1.0	1.0	mg/L			09/06/13 15:58	1
Nitrite as N	<0.10		0.10	0.10	mg/L			09/06/13 15:58	1
Nitrate as N	0.30		0.10	0.10	mg/L			09/06/13 15:58	1
Sulfate	700		5.0	5.0	mg/L			09/10/13 15:50	5
Alkalinity	170		5.0	5.0	mg/L			09/12/13 15:12	1
Bicarbonate Alkalinity as CaCO3	160		5.0	5.0	mg/L			09/12/13 15:12	1
Carbonate Alkalinity as CaCO3	5.5		5.0	5.0	mg/L			09/12/13 15:12	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 06:53	09/13/13 13:38	1
Total Dissolved Solids	1200		10	10	mg/L			09/09/13 15:29	1
Total Suspended Solids	12		4.0	4.0	mg/L			09/09/13 10:44	1
Cr (VI)	0.0029 J		0.010	0.0020	mg/L			09/06/13 13:15	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02D

Lab Sample ID: 240-28756-1

Date Collected: 09/06/13 10:30

Matrix: Water

Date Received: 09/06/13 15:12

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Aluminum	600		50	50	ug/L		09/09/13 07:36	09/10/13 13:17	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Barium	130		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Chromium	37		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Copper	4.6		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Iron	<100	L	100	100	ug/L		09/09/13 07:36	09/10/13 13:17	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Nickel	4.7		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:17	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 13:17	1
Calcium	170000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:17	1
Magnesium	<1000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:17	1
Potassium	19000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:17	1
Sodium	23000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:17	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Aluminum	630		50	50	ug/L		09/09/13 07:36	09/10/13 15:39	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Barium	130		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Chromium	38		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Copper	4.7		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Iron	<100	L	100	100	ug/L		09/09/13 07:36	09/10/13 15:39	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Nickel	4.4		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 15:39	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 15:39	1
Calcium	180000		1000	1000	ug/L		09/09/13 07:36	09/10/13 15:39	1
Magnesium	<1000		1000	1000	ug/L		09/09/13 07:36	09/10/13 15:39	1
Potassium	19000		1000	1000	ug/L		09/09/13 07:36	09/10/13 15:39	1
Sodium	24000		1000	1000	ug/L		09/09/13 07:36	09/10/13 15:39	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:35	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02D

Lab Sample ID: 240-28756-1

Date Collected: 09/06/13 10:30

Matrix: Water

Date Received: 09/06/13 15:12

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	450		10	10	mg/L			09/10/13 08:55	1
Chloride	<1.0		1.0	1.0	mg/L			09/06/13 17:20	1
Nitrite as N	0.66		0.10	0.10	mg/L			09/06/13 17:20	1
Nitrate as N	0.48		0.10	0.10	mg/L			09/06/13 17:20	1
Sulfate	7.9		1.0	1.0	mg/L			09/06/13 17:20	1
Alkalinity	490		5.0	5.0	mg/L			09/12/13 15:40	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 15:40	1
Carbonate Alkalinity as CaCO3	59		5.0	5.0	mg/L			09/12/13 15:40	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 06:40	09/13/13 13:38	1
Total Dissolved Solids	540		20	20	mg/L			09/11/13 11:07	1
Total Suspended Solids	<4.0		4.0	4.0	mg/L			09/10/13 08:37	1
Cr (VI)	0.038		0.010	0.0020	mg/L			09/06/13 15:50	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02P

Lab Sample ID: 240-28756-2

Date Collected: 09/06/13 10:40

Matrix: Water

Date Received: 09/06/13 15:12

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Aluminum	420		50	50	ug/L		09/09/13 07:36	09/10/13 14:24	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Barium	83		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Chromium	16		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Copper	2.7		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 14:24	1
Manganese	25		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Nickel	2.4		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:24	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 14:24	1
Calcium	130000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:24	1
Magnesium	22000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:24	1
Potassium	11000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:24	1
Sodium	39000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:24	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 16:38	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Barium	36		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Chromium	15		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Copper	2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 16:38	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:38	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 16:38	1
Calcium	68000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:38	1
Magnesium	17000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:38	1
Potassium	11000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:38	1
Sodium	41000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:38	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:45	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02P

Lab Sample ID: 240-28756-2

Date Collected: 09/06/13 10:40

Matrix: Water

Date Received: 09/06/13 15:12

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	540		10	10	mg/L			09/10/13 09:28	1
Chloride	23		1.0	1.0	mg/L			09/07/13 15:41	1
Nitrite as N	0.46		0.10	0.10	mg/L			09/07/13 15:41	1
Nitrate as N	0.56		0.10	0.10	mg/L			09/07/13 15:41	1
Sulfate	200		5.0	5.0	mg/L			09/10/13 17:35	5
Alkalinity	32		5.0	5.0	mg/L			09/12/13 16:47	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 16:47	1
Carbonate Alkalinity as CaCO3	31		5.0	5.0	mg/L			09/12/13 16:47	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 06:58	09/13/13 13:42	1
Total Dissolved Solids	460		10	10	mg/L			09/11/13 11:07	1
Total Suspended Solids	180		4.0	4.0	mg/L			09/10/13 08:37	1
Cr (VI)	0.017		0.010	0.0020	mg/L			09/06/13 15:47	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01D

Lab Sample ID: 240-28756-3

Date Collected: 09/06/13 11:30

Matrix: Water

Date Received: 09/06/13 15:12

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Aluminum	77		50	50	ug/L		09/09/13 07:36	09/10/13 14:46	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Barium	23		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Chromium	34		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 14:46	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:46	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 14:46	1
Calcium	38000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:46	1
Magnesium	4700		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:46	1
Potassium	7300		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:46	1
Sodium	11000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:46	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 16:46	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Barium	22		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Chromium	33		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 16:46	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:46	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 16:46	1
Calcium	36000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:46	1
Magnesium	4600		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:46	1
Potassium	7300		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:46	1
Sodium	11000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:46	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:46	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01D

Lab Sample ID: 240-28756-3

Date Collected: 09/06/13 11:30

Matrix: Water

Date Received: 09/06/13 15:12

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	100		5.0	5.0	mg/L			09/10/13 09:31	1
Chloride	1.7		1.0	1.0	mg/L			09/07/13 16:30	1
Nitrite as N	<0.10		0.10	0.10	mg/L			09/07/13 16:30	1
Nitrate as N	0.34		0.10	0.10	mg/L			09/07/13 16:30	1
Sulfate	37		1.0	1.0	mg/L			09/07/13 16:30	1
Alkalinity	92		5.0	5.0	mg/L			09/12/13 17:00	1
Bicarbonate Alkalinity as CaCO3	91		5.0	5.0	mg/L			09/12/13 17:00	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 17:00	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/09/13 06:57	09/09/13 13:33	1
Total Dissolved Solids	170		10	10	mg/L			09/11/13 11:07	1
Total Suspended Solids	<4.0		4.0	4.0	mg/L			09/10/13 08:37	1
Cr (VI)	0.027		0.010	0.0020	mg/L			09/06/13 15:46	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01P

Lab Sample ID: 240-28756-4

Date Collected: 09/06/13 11:40

Matrix: Water

Date Received: 09/06/13 15:12

Method: 200.8 - ICPMS Metals by 200.8 - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Aluminum	930		50	50	ug/L		09/09/13 07:36	09/10/13 14:54	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Barium	54		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Chromium	13		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Copper	2.5		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Iron	840		100	100	ug/L		09/09/13 07:36	09/10/13 14:54	1
Manganese	81		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Nickel	2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 14:54	1
Zinc	25 B		20	20	ug/L		09/09/13 07:36	09/10/13 14:54	1
Calcium	97000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:54	1
Magnesium	28000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:54	1
Potassium	5000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:54	1
Sodium	37000		1000	1000	ug/L		09/09/13 07:36	09/10/13 14:54	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 16:53	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Barium	44		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Chromium	14		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 16:53	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Antimony	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 16:53	1
Zinc	<20		20	20	ug/L		09/09/13 07:36	09/10/13 16:53	1
Calcium	87000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:53	1
Magnesium	24000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:53	1
Potassium	5700		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:53	1
Sodium	36000		1000	1000	ug/L		09/09/13 07:36	09/10/13 16:53	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:50	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01P

Lab Sample ID: 240-28756-4

Date Collected: 09/06/13 11:40

Matrix: Water

Date Received: 09/06/13 15:12

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	330		5.0	5.0	mg/L			09/10/13 09:35	1
Chloride	25		1.0	1.0	mg/L			09/07/13 16:47	1
Nitrite as N	<0.10		0.10	0.10	mg/L			09/07/13 16:47	1
Nitrate as N	0.44		0.10	0.10	mg/L			09/07/13 16:47	1
Sulfate	220		5.0	5.0	mg/L			09/10/13 18:27	5
Alkalinity	150		5.0	5.0	mg/L			09/12/13 17:08	1
Bicarbonate Alkalinity as CaCO3	150		5.0	5.0	mg/L			09/12/13 17:08	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 17:08	1
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 07:00	09/13/13 13:42	1
Total Dissolved Solids	670		10	10	mg/L			09/11/13 11:07	1
Total Suspended Solids	45		4.0	4.0	mg/L			09/11/13 08:24	1
Cr (VI)	0.0042 J		0.010	0.0020	mg/L			09/06/13 15:48	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 100933

Client Sample ID: SC02D

Prep Type: Dissolved

Prep Batch: 100583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<1.0		100	101		ug/L		101	70 - 130
Aluminum	630		10000	10500		ug/L		99	70 - 130
Arsenic	<5.0		1000	961		ug/L		96	70 - 130
Barium	130		1000	1130		ug/L		99	70 - 130
Beryllium	<1.0		1000	814		ug/L		81	70 - 130
Cadmium	<1.0		1000	963		ug/L		96	70 - 130
Cobalt	<1.0		1000	982		ug/L		98	70 - 130
Chromium	38		1000	1030		ug/L		99	70 - 130
Copper	4.7		1000	972		ug/L		97	70 - 130
Iron	<100	L	10000	9190		ug/L		92	70 - 130
Manganese	<5.0		1000	1030		ug/L		103	70 - 130
Nickel	4.4		1000	989		ug/L		98	70 - 130
Lead	<1.0		1000	900		ug/L		90	70 - 130
Antimony	<2.0		100	96.7		ug/L		97	70 - 130
Selenium	<5.0		1000	911		ug/L		91	70 - 130
Thallium	<2.0		250	228		ug/L		91	70 - 130
Zinc	<20		1000	924		ug/L		92	70 - 130
Calcium	180000		10000	186000	4	ug/L		61	70 - 130
Magnesium	<1000		10000	9990		ug/L		100	70 - 130
Potassium	19000		10000	28900		ug/L		95	70 - 130
Sodium	24000		10000	33400		ug/L		89	70 - 130

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 100933

Client Sample ID: SC02D

Prep Type: Dissolved

Prep Batch: 100583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Silver	<1.0		100	102		ug/L		102	70 - 130	1	20
Aluminum	630		10000	10700		ug/L		100	70 - 130	2	20
Arsenic	<5.0		1000	982		ug/L		98	70 - 130	2	20
Barium	130		1000	1150		ug/L		101	70 - 130	2	20
Beryllium	<1.0		1000	835		ug/L		83	70 - 130	3	20
Cadmium	<1.0		1000	972		ug/L		97	70 - 130	1	20
Cobalt	<1.0		1000	998		ug/L		100	70 - 130	2	20
Chromium	38		1000	1040		ug/L		100	70 - 130	1	20
Copper	4.7		1000	992		ug/L		99	70 - 130	2	20
Iron	<100	L	10000	9300		ug/L		93	70 - 130	1	20
Manganese	<5.0		1000	1050		ug/L		105	70 - 130	2	20
Nickel	4.4		1000	1010		ug/L		100	70 - 130	2	20
Lead	<1.0		1000	909		ug/L		91	70 - 130	1	20
Antimony	<2.0		100	97.8		ug/L		98	70 - 130	1	20
Selenium	<5.0		1000	929		ug/L		93	70 - 130	2	20
Thallium	<2.0		250	232		ug/L		93	70 - 130	2	20
Zinc	<20		1000	942		ug/L		94	70 - 130	2	20
Calcium	180000		10000	192000	4	ug/L		114	70 - 130	3	20
Magnesium	<1000		10000	10100		ug/L		101	70 - 130	1	20
Potassium	19000		10000	29600		ug/L		102	70 - 130	2	20
Sodium	24000		10000	34900		ug/L		104	70 - 130	4	20

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 200.8 - ICPMS Metals by 200.8

Lab Sample ID: MB 240-100583/1-A

Matrix: Water

Analysis Batch: 100933

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 100583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Aluminum	<50		50	50	ug/L		09/09/13 07:36	09/10/13 13:02	1
Arsenic	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Barium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Beryllium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Cadmium	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Cobalt	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Chromium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Copper	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Iron	<100		100	100	ug/L		09/09/13 07:36	09/10/13 13:02	1
Manganese	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Nickel	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Lead	<1.0		1.0	1.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Antimony	6.75		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Selenium	<5.0		5.0	5.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Thallium	<2.0		2.0	2.0	ug/L		09/09/13 07:36	09/10/13 13:02	1
Zinc	28.0		20	20	ug/L		09/09/13 07:36	09/10/13 13:02	1
Calcium	<1000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:02	1
Magnesium	<1000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:02	1
Potassium	<1000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:02	1
Sodium	<1000		1000	1000	ug/L		09/09/13 07:36	09/10/13 13:02	1

Lab Sample ID: LCS 240-100583/2-A

Matrix: Water

Analysis Batch: 100933

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 100583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	100	98.7		ug/L		99	85 - 115
Aluminum	10000	9450		ug/L		95	85 - 115
Arsenic	1000	971		ug/L		97	85 - 115
Barium	1000	905		ug/L		91	85 - 115
Beryllium	1000	847		ug/L		85	85 - 115
Cadmium	1000	961		ug/L		96	85 - 115
Cobalt	1000	952		ug/L		95	85 - 115
Chromium	1000	946		ug/L		95	85 - 115
Copper	1000	1000		ug/L		100	85 - 115
Iron	10000	9040		ug/L		90	85 - 115
Manganese	1000	944		ug/L		94	85 - 115
Nickel	1000	989		ug/L		99	85 - 115
Lead	1000	884		ug/L		88	85 - 115
Antimony	100	94.8		ug/L		95	85 - 115
Selenium	1000	984		ug/L		98	85 - 115
Thallium	250	217		ug/L		87	85 - 115
Zinc	1000	1030		ug/L		103	85 - 115
Calcium	10000	10500		ug/L		105	85 - 115
Magnesium	10000	9610		ug/L		96	85 - 115
Potassium	10000	9380		ug/L		94	85 - 115
Sodium	10000	10400		ug/L		104	85 - 115

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 200.8 - ICPMS Metals by 200.8 (Continued)

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 100933

Client Sample ID: SC02D

Prep Type: Total Recoverable

Prep Batch: 100583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<1.0		100	92.5		ug/L		93	70 - 130
Aluminum	600		10000	9510		ug/L		89	70 - 130
Arsenic	<5.0		1000	925		ug/L		93	70 - 130
Barium	130		1000	1020		ug/L		89	70 - 130
Beryllium	<1.0		1000	815		ug/L		82	70 - 130
Cadmium	<1.0		1000	911		ug/L		91	70 - 130
Cobalt	<1.0		1000	904		ug/L		90	70 - 130
Chromium	37		1000	938		ug/L		90	70 - 130
Copper	4.6		1000	904		ug/L		90	70 - 130
Iron	<100	L	10000	8460		ug/L		85	70 - 130
Manganese	<5.0		1000	921		ug/L		92	70 - 130
Nickel	4.7		1000	917		ug/L		91	70 - 130
Lead	<1.0		1000	829		ug/L		83	70 - 130
Antimony	<2.0		100	91.3		ug/L		91	70 - 130
Selenium	<5.0		1000	915		ug/L		92	70 - 130
Thallium	<2.0		250	211		ug/L		84	70 - 130
Zinc	<20		1000	901		ug/L		90	70 - 130
Calcium	170000		10000	170000	4	ug/L		-54	70 - 130
Magnesium	<1000		10000	9020		ug/L		90	70 - 130
Potassium	19000		10000	26300		ug/L		73	70 - 130
Sodium	23000		10000	30900		ug/L		82	70 - 130

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 100933

Client Sample ID: SC02D

Prep Type: Total Recoverable

Prep Batch: 100583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Silver	<1.0		100	96.4		ug/L		96	70 - 130	4	20
Aluminum	600		10000	9900		ug/L		93	70 - 130	4	20
Arsenic	<5.0		1000	969		ug/L		97	70 - 130	5	20
Barium	130		1000	1060		ug/L		93	70 - 130	4	20
Beryllium	<1.0		1000	861		ug/L		86	70 - 130	5	20
Cadmium	<1.0		1000	942		ug/L		94	70 - 130	3	20
Cobalt	<1.0		1000	943		ug/L		94	70 - 130	4	20
Chromium	37		1000	986		ug/L		95	70 - 130	5	20
Copper	4.6		1000	950		ug/L		95	70 - 130	5	20
Iron	<100	L	10000	8820		ug/L		88	70 - 130	4	20
Manganese	<5.0		1000	964		ug/L		96	70 - 130	5	20
Nickel	4.7		1000	959		ug/L		95	70 - 130	4	20
Lead	<1.0		1000	854		ug/L		85	70 - 130	3	20
Antimony	<2.0		100	94.6		ug/L		95	70 - 130	4	20
Selenium	<5.0		1000	950		ug/L		95	70 - 130	4	20
Thallium	<2.0		250	218		ug/L		87	70 - 130	3	20
Zinc	<20		1000	932		ug/L		93	70 - 130	3	20
Calcium	170000		10000	174000	4	ug/L		-6	70 - 130	3	20
Magnesium	<1000		10000	9450		ug/L		94	70 - 130	5	20
Potassium	19000		10000	27300		ug/L		83	70 - 130	4	20
Sodium	23000		10000	32000		ug/L		93	70 - 130	3	20

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 240-100593/1-A
Matrix: Water
Analysis Batch: 100895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/09/13 15:05	09/10/13 11:32	1

Lab Sample ID: LCS 240-100593/2-A
Matrix: Water
Analysis Batch: 100895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.01		ug/L		100	85 - 115

Lab Sample ID: 240-28756-1 MS
Matrix: Water
Analysis Batch: 100895

Client Sample ID: SC02D
Prep Type: Total/NA
Prep Batch: 100593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.20		1.00	1.00		ug/L		100	70 - 130

Lab Sample ID: 240-28756-1 MSD
Matrix: Water
Analysis Batch: 100895

Client Sample ID: SC02D
Prep Type: Total/NA
Prep Batch: 100593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD	Limit
Mercury	<0.20		1.00	1.07		ug/L		107	70 - 130	7	20

Lab Sample ID: 240-28756-1 MS
Matrix: Water
Analysis Batch: 100895

Client Sample ID: SC02D
Prep Type: Dissolved
Prep Batch: 100593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.20		1.00	1.01		ug/L		101	70 - 130

Lab Sample ID: 240-28756-1 MSD
Matrix: Water
Analysis Batch: 100895

Client Sample ID: SC02D
Prep Type: Dissolved
Prep Batch: 100593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD	Limit
Mercury	<0.20		1.00	1.01		ug/L		101	70 - 130	0	20

Method: 130.2 - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 240-100749/1
Matrix: Water
Analysis Batch: 100749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<5.0		5.0	5.0	mg/L			09/10/13 08:45	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 130.2 - Hardness, Total (mg/l as CaCO3) (Continued)

Lab Sample ID: LCS 240-100749/2

Matrix: Water

Analysis Batch: 100749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	312	297		mg/L		95	88 - 110

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 100749

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	450		1000	1430		mg/L		98	87 - 114

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 100749

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hardness as calcium carbonate	450		1000	1430		mg/L		98	87 - 114	0	20

Lab Sample ID: 240-28756-1 DU

Matrix: Water

Analysis Batch: 100749

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	450		449		mg/L		0.9	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-100507/9

Matrix: Water

Analysis Batch: 100507

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	1.0	mg/L			09/06/13 16:14	1
Sulfate	<1.0		1.0	1.0	mg/L			09/06/13 16:14	1

Lab Sample ID: LCS 240-100507/10

Matrix: Water

Analysis Batch: 100507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.7		mg/L		105	90 - 110
Sulfate	50.0	49.9		mg/L		100	90 - 110

Lab Sample ID: 240-28700-2 MS

Matrix: Water

Analysis Batch: 100507

Client Sample ID: GC09P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	32		50.0	92.2		mg/L		119	80 - 120

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-28700-2 MSD

Matrix: Water

Analysis Batch: 100507

Client Sample ID: GC09P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	32		50.0	93.4	F	mg/L		122	80 - 120	1	20

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 100507

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<1.0		50.0	60.9	F	mg/L		122	80 - 120		
Sulfate	7.9		50.0	68.5	F	mg/L		121	80 - 120		

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 100507

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<1.0		50.0	59.2		mg/L		118	80 - 120	3	20
Sulfate	7.9		50.0	66.9		mg/L		118	80 - 120	3	20

Lab Sample ID: MB 240-100508/9

Matrix: Water

Analysis Batch: 100508

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.10		0.10	0.10	mg/L			09/06/13 16:14	1
Nitrate as N	<0.10		0.10	0.10	mg/L			09/06/13 16:14	1

Lab Sample ID: LCS 240-100508/10

Matrix: Water

Analysis Batch: 100508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	2.50	2.52		mg/L		101	90 - 110		
Nitrate as N	2.50	2.75		mg/L		110	90 - 110		

Lab Sample ID: 240-28700-2 MS

Matrix: Water

Analysis Batch: 100508

Client Sample ID: GC09P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	<0.10		2.50	2.64		mg/L		106	80 - 120		
Nitrate as N	0.31		2.50	3.12		mg/L		113	80 - 120		

Lab Sample ID: 240-28700-2 MSD

Matrix: Water

Analysis Batch: 100508

Client Sample ID: GC09P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	<0.10		2.50	2.58		mg/L		103	80 - 120	3	20
Nitrate as N	0.31		2.50	3.21		mg/L		116	80 - 120	3	20

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 100508

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.66		2.50	3.33		mg/L		107	80 - 120
Nitrate as N	0.48		2.50	3.56	F	mg/L		123	80 - 120

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 100508

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.66		2.50	3.36		mg/L		108	80 - 120	1	20
Nitrate as N	0.48		2.50	3.49		mg/L		120	80 - 120	2	20

Lab Sample ID: MB 240-100548/3

Matrix: Water

Analysis Batch: 100548

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	1.0	mg/L			09/07/13 15:08	1
Sulfate	<1.0		1.0	1.0	mg/L			09/07/13 15:08	1

Lab Sample ID: LCS 240-100548/4

Matrix: Water

Analysis Batch: 100548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.6		mg/L		103	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: 240-28756-2 MS

Matrix: Water

Analysis Batch: 100548

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	23		50.0	84.4	F	mg/L		122	80 - 120

Lab Sample ID: 240-28756-2 MSD

Matrix: Water

Analysis Batch: 100548

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	23		50.0	85.1	F	mg/L		123	80 - 120	1	20

Lab Sample ID: MB 240-100549/3

Matrix: Water

Analysis Batch: 100549

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.10		0.10	0.10	mg/L			09/07/13 15:08	1
Nitrate as N	<0.10		0.10	0.10	mg/L			09/07/13 15:08	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-100549/4

Matrix: Water

Analysis Batch: 100549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.47		mg/L		99	90 - 110
Nitrate as N	2.50	2.69		mg/L		108	90 - 110

Lab Sample ID: 240-28756-2 MS

Matrix: Water

Analysis Batch: 100549

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.46		2.50	3.21		mg/L		110	80 - 120
Nitrate as N	0.56		2.50	3.50		mg/L		118	80 - 120

Lab Sample ID: 240-28756-2 MSD

Matrix: Water

Analysis Batch: 100549

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.46		2.50	3.24		mg/L		111	80 - 120	1	20
Nitrate as N	0.56		2.50	3.53		mg/L		119	80 - 120	1	20

Lab Sample ID: MB 240-100861/3

Matrix: Water

Analysis Batch: 100861

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	1.0	mg/L			09/10/13 11:18	1
Sulfate	<1.0		1.0	1.0	mg/L			09/10/13 11:18	1

Lab Sample ID: LCS 240-100861/4

Matrix: Water

Analysis Batch: 100861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.8		mg/L		94	90 - 110
Sulfate	50.0	46.7		mg/L		93	90 - 110

Lab Sample ID: 240-28756-2 MS

Matrix: Water

Analysis Batch: 100861

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19		50.0	59.1		mg/L		80	80 - 120
Sulfate	200		50.0	238	4	mg/L		74	80 - 120

Lab Sample ID: 240-28756-2 MSD

Matrix: Water

Analysis Batch: 100861

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	19		50.0	59.0		mg/L		80	80 - 120	0	20

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-28756-2 MSD

Matrix: Water

Analysis Batch: 100861

Client Sample ID: SC02P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	200		50.0	238	4	mg/L		75	80 - 120	0	20

Method: 310.1 - Alkalinity

Lab Sample ID: MB 240-101302/5

Matrix: Water

Analysis Batch: 101302

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<5.0		5.0	5.0	mg/L			09/12/13 12:02	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 12:02	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			09/12/13 12:02	1

Lab Sample ID: LCS 240-101302/4

Matrix: Water

Analysis Batch: 101302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	79.5	83.8		mg/L		105	90 - 127

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 101302

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	490		500	609		mg/L		24	10 - 160

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 101302

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	490		500	594		mg/L		21	10 - 160	2	24

Lab Sample ID: 240-28756-1 DU

Matrix: Water

Analysis Batch: 101302

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	490		478		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20
Carbonate Alkalinity as CaCO3	59		60.4		mg/L		3	20

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 240-100580/10-A

Matrix: Water

Analysis Batch: 100714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/09/13 06:33	09/09/13 13:21	1

Lab Sample ID: LCS 240-100580/11-A

Matrix: Water

Analysis Batch: 100714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as P	4.48	4.36		mg/L		97	90 - 110

Lab Sample ID: MB 240-101290/10-A

Matrix: Water

Analysis Batch: 101404

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.10		0.10	0.10	mg/L		09/13/13 06:36	09/13/13 13:38	1

Lab Sample ID: LCS 240-101290/11-A

Matrix: Water

Analysis Batch: 101404

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as P	4.48	4.34		mg/L		97	90 - 110

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 101404

Client Sample ID: SC02D

Prep Type: Total/NA

Prep Batch: 101290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as P	<0.10		0.500	0.515		mg/L		103	90 - 110

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 101404

Client Sample ID: SC02D

Prep Type: Total/NA

Prep Batch: 101290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Phosphorus as P	<0.10		0.500	0.502		mg/L		100	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-100724/1

Matrix: Water

Analysis Batch: 100724

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/09/13 15:29	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 240-100724/2

Matrix: Water

Analysis Batch: 100724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	470	490		mg/L		104	88 - 110

Lab Sample ID: MB 240-101002/1

Matrix: Water

Analysis Batch: 101002

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/11/13 11:07	1

Lab Sample ID: LCS 240-101002/2

Matrix: Water

Analysis Batch: 101002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	470	482		mg/L		103	88 - 110

Lab Sample ID: 240-28756-1 DU

Matrix: Water

Analysis Batch: 101002

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	540		526		mg/L		3	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-100650/1

Matrix: Water

Analysis Batch: 100650

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0	4.0	mg/L			09/09/13 10:44	1

Lab Sample ID: LCS 240-100650/2

Matrix: Water

Analysis Batch: 100650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	29.0	30.0		mg/L		103	73 - 113

Lab Sample ID: MB 240-100787/1

Matrix: Water

Analysis Batch: 100787

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0	4.0	mg/L			09/10/13 08:37	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 240-100787/2

Matrix: Water

Analysis Batch: 100787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	29.0	29.0		mg/L		100	73 - 113

Lab Sample ID: 240-28756-1 DU

Matrix: Water

Analysis Batch: 100787

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<4.0		<4.0		mg/L		NC	10

Lab Sample ID: MB 240-100965/1

Matrix: Water

Analysis Batch: 100965

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0	4.0	mg/L			09/11/13 08:24	1

Lab Sample ID: LCS 240-100965/2

Matrix: Water

Analysis Batch: 100965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	29.0	28.0		mg/L		97	73 - 113

Lab Sample ID: 240-28756-4 DU

Matrix: Water

Analysis Batch: 100965

Client Sample ID: SC01P

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	45		51.0	F	mg/L		13	10

Method: SM 3500 CR D - Chromium, Hexavalent

Lab Sample ID: MB 240-100447/3

Matrix: Water

Analysis Batch: 100447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0020		0.010	0.0020	mg/L			09/06/13 13:12	1

Lab Sample ID: LCS 240-100447/4

Matrix: Water

Analysis Batch: 100447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.279		mg/L		112	80 - 118

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Method: SM 3500 CR D - Chromium, Hexavalent (Continued)

Lab Sample ID: 240-28700-1 MS

Matrix: Water

Analysis Batch: 100447

Client Sample ID: GC09D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.025		0.250	0.268		mg/L		97	41 - 136

Lab Sample ID: 240-28700-1 MSD

Matrix: Water

Analysis Batch: 100447

Client Sample ID: GC09D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.025		0.250	0.275		mg/L		100	41 - 136	3	20

Lab Sample ID: 240-28756-1 MS

Matrix: Water

Analysis Batch: 100447

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.038		0.250	0.300		mg/L		105	41 - 136

Lab Sample ID: 240-28756-1 MSD

Matrix: Water

Analysis Batch: 100447

Client Sample ID: SC02D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.038		0.250	0.293		mg/L		102	41 - 136	2	20

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Metals

Filtration Batch: 100581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Dissolved	Water	FILTRATION	
240-28700-2	GC09P	Dissolved	Water	FILTRATION	
240-28700-3	GCFD	Dissolved	Water	FILTRATION	
240-28756-1	SC02D	Dissolved	Water	FILTRATION	
240-28756-1 MS	SC02D	Dissolved	Water	FILTRATION	
240-28756-1 MSD	SC02D	Dissolved	Water	FILTRATION	
240-28756-2	SC02P	Dissolved	Water	FILTRATION	
240-28756-3	SC01D	Dissolved	Water	FILTRATION	
240-28756-4	SC01P	Dissolved	Water	FILTRATION	

Prep Batch: 100583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Dissolved	Water	200.8	100581
240-28700-1	GC09D	Total Recoverable	Water	200.8	
240-28700-2	GC09P	Dissolved	Water	200.8	100581
240-28700-2	GC09P	Total Recoverable	Water	200.8	
240-28700-3	GCFD	Dissolved	Water	200.8	100581
240-28700-3	GCFD	Total Recoverable	Water	200.8	
240-28756-1	SC02D	Dissolved	Water	200.8	100581
240-28756-1	SC02D	Total Recoverable	Water	200.8	
240-28756-1 MS	SC02D	Dissolved	Water	200.8	100581
240-28756-1 MS	SC02D	Total Recoverable	Water	200.8	
240-28756-1 MSD	SC02D	Dissolved	Water	200.8	100581
240-28756-1 MSD	SC02D	Total Recoverable	Water	200.8	
240-28756-2	SC02P	Dissolved	Water	200.8	100581
240-28756-2	SC02P	Total Recoverable	Water	200.8	
240-28756-3	SC01D	Dissolved	Water	200.8	100581
240-28756-3	SC01D	Total Recoverable	Water	200.8	
240-28756-4	SC01P	Dissolved	Water	200.8	100581
240-28756-4	SC01P	Total Recoverable	Water	200.8	
LCS 240-100583/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 240-100583/1-A	Method Blank	Total Recoverable	Water	200.8	

Prep Batch: 100593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Dissolved	Water	245.1	100581
240-28700-1	GC09D	Total/NA	Water	245.1	
240-28700-2	GC09P	Dissolved	Water	245.1	100581
240-28700-2	GC09P	Total/NA	Water	245.1	
240-28700-3	GCFD	Dissolved	Water	245.1	100581
240-28700-3	GCFD	Total/NA	Water	245.1	
240-28756-1	SC02D	Dissolved	Water	245.1	100581
240-28756-1	SC02D	Total/NA	Water	245.1	
240-28756-1 MS	SC02D	Dissolved	Water	245.1	100581
240-28756-1 MS	SC02D	Total/NA	Water	245.1	
240-28756-1 MSD	SC02D	Dissolved	Water	245.1	100581
240-28756-1 MSD	SC02D	Total/NA	Water	245.1	
240-28756-2	SC02P	Dissolved	Water	245.1	100581
240-28756-2	SC02P	Total/NA	Water	245.1	
240-28756-3	SC01D	Dissolved	Water	245.1	100581
240-28756-3	SC01D	Total/NA	Water	245.1	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Metals (Continued)

Prep Batch: 100593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-4	SC01P	Dissolved	Water	245.1	100581
240-28756-4	SC01P	Total/NA	Water	245.1	
LCS 240-100593/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 240-100593/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 100895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Dissolved	Water	245.1	100593
240-28700-1	GC09D	Total/NA	Water	245.1	100593
240-28700-2	GC09P	Dissolved	Water	245.1	100593
240-28700-2	GC09P	Total/NA	Water	245.1	100593
240-28700-3	GCFD	Dissolved	Water	245.1	100593
240-28700-3	GCFD	Total/NA	Water	245.1	100593
240-28756-1	SC02D	Dissolved	Water	245.1	100593
240-28756-1	SC02D	Total/NA	Water	245.1	100593
240-28756-1 MS	SC02D	Dissolved	Water	245.1	100593
240-28756-1 MS	SC02D	Total/NA	Water	245.1	100593
240-28756-1 MSD	SC02D	Dissolved	Water	245.1	100593
240-28756-1 MSD	SC02D	Total/NA	Water	245.1	100593
240-28756-2	SC02P	Dissolved	Water	245.1	100593
240-28756-2	SC02P	Total/NA	Water	245.1	100593
240-28756-3	SC01D	Dissolved	Water	245.1	100593
240-28756-3	SC01D	Total/NA	Water	245.1	100593
240-28756-4	SC01P	Dissolved	Water	245.1	100593
240-28756-4	SC01P	Total/NA	Water	245.1	100593
LCS 240-100593/2-A	Lab Control Sample	Total/NA	Water	245.1	100593
MB 240-100593/1-A	Method Blank	Total/NA	Water	245.1	100593

Analysis Batch: 100933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Dissolved	Water	200.8	100583
240-28700-1	GC09D	Total Recoverable	Water	200.8	100583
240-28700-2	GC09P	Dissolved	Water	200.8	100583
240-28700-2	GC09P	Total Recoverable	Water	200.8	100583
240-28700-3	GCFD	Dissolved	Water	200.8	100583
240-28700-3	GCFD	Total Recoverable	Water	200.8	100583
240-28756-1	SC02D	Dissolved	Water	200.8	100583
240-28756-1	SC02D	Total Recoverable	Water	200.8	100583
240-28756-1 MS	SC02D	Dissolved	Water	200.8	100583
240-28756-1 MS	SC02D	Total Recoverable	Water	200.8	100583
240-28756-1 MSD	SC02D	Dissolved	Water	200.8	100583
240-28756-1 MSD	SC02D	Total Recoverable	Water	200.8	100583
240-28756-2	SC02P	Dissolved	Water	200.8	100583
240-28756-2	SC02P	Total Recoverable	Water	200.8	100583
240-28756-3	SC01D	Dissolved	Water	200.8	100583
240-28756-3	SC01D	Total Recoverable	Water	200.8	100583
240-28756-4	SC01P	Dissolved	Water	200.8	100583
240-28756-4	SC01P	Total Recoverable	Water	200.8	100583
LCS 240-100583/2-A	Lab Control Sample	Total Recoverable	Water	200.8	100583
MB 240-100583/1-A	Method Blank	Total Recoverable	Water	200.8	100583

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

General Chemistry

Analysis Batch: 100447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	SM 3500 CR D	
240-28700-1 MS	GC09D	Total/NA	Water	SM 3500 CR D	
240-28700-1 MSD	GC09D	Total/NA	Water	SM 3500 CR D	
240-28700-2	GC09P	Total/NA	Water	SM 3500 CR D	
240-28700-3	GC09D	Total/NA	Water	SM 3500 CR D	
240-28756-1	SC02D	Total/NA	Water	SM 3500 CR D	
240-28756-1 MS	SC02D	Total/NA	Water	SM 3500 CR D	
240-28756-1 MSD	SC02D	Total/NA	Water	SM 3500 CR D	
240-28756-2	SC02P	Total/NA	Water	SM 3500 CR D	
240-28756-3	SC01D	Total/NA	Water	SM 3500 CR D	
240-28756-4	SC01P	Total/NA	Water	SM 3500 CR D	
LCS 240-100447/4	Lab Control Sample	Total/NA	Water	SM 3500 CR D	
MB 240-100447/3	Method Blank	Total/NA	Water	SM 3500 CR D	

Analysis Batch: 100507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	300.0	
240-28700-2	GC09P	Total/NA	Water	300.0	
240-28700-2 MS	GC09P	Total/NA	Water	300.0	
240-28700-2 MSD	GC09P	Total/NA	Water	300.0	
240-28700-3	GC09D	Total/NA	Water	300.0	
240-28756-1	SC02D	Total/NA	Water	300.0	
240-28756-1 MS	SC02D	Total/NA	Water	300.0	
240-28756-1 MSD	SC02D	Total/NA	Water	300.0	
LCS 240-100507/10	Lab Control Sample	Total/NA	Water	300.0	
MB 240-100507/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 100508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	300.0	
240-28700-2	GC09P	Total/NA	Water	300.0	
240-28700-2 MS	GC09P	Total/NA	Water	300.0	
240-28700-2 MSD	GC09P	Total/NA	Water	300.0	
240-28700-3	GC09D	Total/NA	Water	300.0	
240-28756-1	SC02D	Total/NA	Water	300.0	
240-28756-1 MS	SC02D	Total/NA	Water	300.0	
240-28756-1 MSD	SC02D	Total/NA	Water	300.0	
LCS 240-100508/10	Lab Control Sample	Total/NA	Water	300.0	
MB 240-100508/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 100548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-2	SC02P	Total/NA	Water	300.0	
240-28756-2 MS	SC02P	Total/NA	Water	300.0	
240-28756-2 MSD	SC02P	Total/NA	Water	300.0	
240-28756-3	SC01D	Total/NA	Water	300.0	
240-28756-4	SC01P	Total/NA	Water	300.0	
LCS 240-100548/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-100548/3	Method Blank	Total/NA	Water	300.0	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

General Chemistry (Continued)

Analysis Batch: 100549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-2	SC02P	Total/NA	Water	300.0	
240-28756-2 MS	SC02P	Total/NA	Water	300.0	
240-28756-2 MSD	SC02P	Total/NA	Water	300.0	
240-28756-3	SC01D	Total/NA	Water	300.0	
240-28756-4	SC01P	Total/NA	Water	300.0	
LCS 240-100549/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-100549/3	Method Blank	Total/NA	Water	300.0	

Prep Batch: 100580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-3	SC01D	Total/NA	Water	365.2/365.3/365	
LCS 240-100580/11-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 240-100580/10-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 100650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	SM 2540D	
240-28700-2	GC09P	Total/NA	Water	SM 2540D	
240-28700-3	GC09D	Total/NA	Water	SM 2540D	
LCS 240-100650/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-100650/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 100714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-3	SC01D	Total/NA	Water	365.1	100580
LCS 240-100580/11-A	Lab Control Sample	Total/NA	Water	365.1	100580
MB 240-100580/10-A	Method Blank	Total/NA	Water	365.1	100580

Analysis Batch: 100724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	SM 2540C	
240-28700-2	GC09P	Total/NA	Water	SM 2540C	
240-28700-3	GC09D	Total/NA	Water	SM 2540C	
LCS 240-100724/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-100724/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 100749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	130.2	
240-28700-2	GC09P	Total/NA	Water	130.2	
240-28700-3	GC09D	Total/NA	Water	130.2	
240-28756-1	SC02D	Total/NA	Water	130.2	
240-28756-1 DU	SC02D	Total/NA	Water	130.2	
240-28756-1 MS	SC02D	Total/NA	Water	130.2	
240-28756-1 MSD	SC02D	Total/NA	Water	130.2	
240-28756-2	SC02P	Total/NA	Water	130.2	
240-28756-3	SC01D	Total/NA	Water	130.2	
240-28756-4	SC01P	Total/NA	Water	130.2	
LCS 240-100749/2	Lab Control Sample	Total/NA	Water	130.2	
MB 240-100749/1	Method Blank	Total/NA	Water	130.2	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

General Chemistry (Continued)

Analysis Batch: 100787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-1	SC02D	Total/NA	Water	SM 2540D	
240-28756-1 DU	SC02D	Total/NA	Water	SM 2540D	
240-28756-2	SC02P	Total/NA	Water	SM 2540D	
240-28756-3	SC01D	Total/NA	Water	SM 2540D	
LCS 240-100787/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-100787/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 100861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-2	GC09P	Total/NA	Water	300.0	
240-28700-3	GC09D	Total/NA	Water	300.0	
240-28756-2	SC02P	Total/NA	Water	300.0	
240-28756-2 MS	SC02P	Total/NA	Water	300.0	
240-28756-2 MSD	SC02P	Total/NA	Water	300.0	
240-28756-4	SC01P	Total/NA	Water	300.0	
LCS 240-100861/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-100861/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 100965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-4	SC01P	Total/NA	Water	SM 2540D	
240-28756-4 DU	SC01P	Total/NA	Water	SM 2540D	
LCS 240-100965/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-100965/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 101002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28756-1	SC02D	Total/NA	Water	SM 2540C	
240-28756-1 DU	SC02D	Total/NA	Water	SM 2540C	
240-28756-2	SC02P	Total/NA	Water	SM 2540C	
240-28756-3	SC01D	Total/NA	Water	SM 2540C	
240-28756-4	SC01P	Total/NA	Water	SM 2540C	
LCS 240-101002/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-101002/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 101290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	365.2/365.3/365	
240-28700-2	GC09P	Total/NA	Water	365.2/365.3/365	
240-28700-3	GC09D	Total/NA	Water	365.2/365.3/365	
240-28756-1	SC02D	Total/NA	Water	365.2/365.3/365	
240-28756-1 MS	SC02D	Total/NA	Water	365.2/365.3/365	
240-28756-1 MSD	SC02D	Total/NA	Water	365.2/365.3/365	
240-28756-2	SC02P	Total/NA	Water	365.2/365.3/365	
240-28756-4	SC01P	Total/NA	Water	365.2/365.3/365	
LCS 240-101290/11-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 240-101290/10-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 101302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	310.1	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

General Chemistry (Continued)

Analysis Batch: 101302 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-2	GC09P	Total/NA	Water	310.1	
240-28700-3	GCFD	Total/NA	Water	310.1	
240-28756-1	SC02D	Total/NA	Water	310.1	
240-28756-1 DU	SC02D	Total/NA	Water	310.1	
240-28756-1 MS	SC02D	Total/NA	Water	310.1	
240-28756-1 MSD	SC02D	Total/NA	Water	310.1	
240-28756-2	SC02P	Total/NA	Water	310.1	
240-28756-3	SC01D	Total/NA	Water	310.1	
240-28756-4	SC01P	Total/NA	Water	310.1	
LCS 240-101302/4	Lab Control Sample	Total/NA	Water	310.1	
MB 240-101302/5	Method Blank	Total/NA	Water	310.1	

Analysis Batch: 101404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-28700-1	GC09D	Total/NA	Water	365.1	101290
240-28700-2	GC09P	Total/NA	Water	365.1	101290
240-28700-3	GCFD	Total/NA	Water	365.1	101290
240-28756-1	SC02D	Total/NA	Water	365.1	101290
240-28756-1 MS	SC02D	Total/NA	Water	365.1	101290
240-28756-1 MSD	SC02D	Total/NA	Water	365.1	101290
240-28756-2	SC02P	Total/NA	Water	365.1	101290
240-28756-4	SC01P	Total/NA	Water	365.1	101290
LCS 240-101290/11-A	Lab Control Sample	Total/NA	Water	365.1	101290
MB 240-101290/10-A	Method Blank	Total/NA	Water	365.1	101290

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09D

Date Collected: 09/05/13 14:00

Date Received: 09/06/13 09:15

Lab Sample ID: 240-28700-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:40	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 12:02	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 14:02	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 16:16	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 13:13	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100507	09/06/13 14:52	LKG	TAL CAN
Total/NA	Analysis	300.0		1	100508	09/06/13 14:52	LKG	TAL CAN
Total/NA	Analysis	SM 2540D		1	100650	09/09/13 10:44	KMG	TAL CAN
Total/NA	Analysis	SM 2540C		1	100724	09/09/13 15:29	KMG	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 09:17	TPH	TAL CAN
Total/NA	Analysis	310.1		1	101302	09/12/13 14:54	LKG	TAL CAN
Total/NA	Prep	365.2/365.3/365			101290	09/13/13 06:49	TPH	TAL CAN
Total/NA	Analysis	365.1		1	101404	09/13/13 13:38	TPH	TAL CAN

Client Sample ID: GC09P

Date Collected: 09/05/13 14:05

Date Received: 09/06/13 09:15

Lab Sample ID: 240-28700-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:42	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 12:03	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 14:09	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 16:23	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 13:15	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100507	09/06/13 15:08	LKG	TAL CAN
Total/NA	Analysis	300.0		1	100508	09/06/13 15:08	LKG	TAL CAN
Total/NA	Analysis	SM 2540D		1	100650	09/09/13 10:44	KMG	TAL CAN
Total/NA	Analysis	SM 2540C		1	100724	09/09/13 15:29	KMG	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 09:21	TPH	TAL CAN
Total/NA	Analysis	300.0		5	100861	09/10/13 15:33	JMB	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: GC09P

Lab Sample ID: 240-28700-2

Date Collected: 09/05/13 14:05

Matrix: Water

Date Received: 09/06/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.1		1	101302	09/12/13 15:03	LKG	TAL CAN
Total/NA	Prep	365.2/365.3/365			101290	09/13/13 06:51	TPH	TAL CAN
Total/NA	Analysis	365.1		1	101404	09/13/13 13:38	TPH	TAL CAN

Client Sample ID: GCFD

Lab Sample ID: 240-28700-3

Date Collected: 09/05/13 14:05

Matrix: Water

Date Received: 09/06/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:43	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 12:07	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 14:16	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 16:31	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 13:15	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100507	09/06/13 15:58	LKG	TAL CAN
Total/NA	Analysis	300.0		1	100508	09/06/13 15:58	LKG	TAL CAN
Total/NA	Analysis	SM 2540D		1	100650	09/09/13 10:44	KMG	TAL CAN
Total/NA	Analysis	SM 2540C		1	100724	09/09/13 15:29	KMG	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 09:24	TPH	TAL CAN
Total/NA	Analysis	300.0		5	100861	09/10/13 15:50	JMB	TAL CAN
Total/NA	Analysis	310.1		1	101302	09/12/13 15:12	LKG	TAL CAN
Total/NA	Prep	365.2/365.3/365			101290	09/13/13 06:53	TPH	TAL CAN
Total/NA	Analysis	365.1		1	101404	09/13/13 13:38	TPH	TAL CAN

Client Sample ID: SC02D

Lab Sample ID: 240-28756-1

Date Collected: 09/06/13 10:30

Matrix: Water

Date Received: 09/06/13 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:35	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 11:57	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 13:17	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC02D

Date Collected: 09/06/13 10:30

Date Received: 09/06/13 15:12

Lab Sample ID: 240-28756-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 15:39	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 15:50	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100507	09/06/13 17:20	LKG	TAL CAN
Total/NA	Analysis	300.0		1	100508	09/06/13 17:20	LKG	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 08:55	TPH	TAL CAN
Total/NA	Analysis	SM 2540D		1	100787	09/10/13 08:37	KMG	TAL CAN
Total/NA	Analysis	SM 2540C		1	101002	09/11/13 11:07	KMG	TAL CAN
Total/NA	Analysis	310.1		1	101302	09/12/13 15:40	LKG	TAL CAN
Total/NA	Prep	365.2/365.3/365			101290	09/13/13 06:40	TPH	TAL CAN
Total/NA	Analysis	365.1		1	101404	09/13/13 13:38	TPH	TAL CAN

Client Sample ID: SC02P

Date Collected: 09/06/13 10:40

Date Received: 09/06/13 15:12

Lab Sample ID: 240-28756-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:45	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 12:09	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 14:24	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 16:38	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 15:47	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100548	09/07/13 15:41	JMB	TAL CAN
Total/NA	Analysis	300.0		1	100549	09/07/13 15:41	JMB	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 09:28	TPH	TAL CAN
Total/NA	Analysis	SM 2540D		1	100787	09/10/13 08:37	KMG	TAL CAN
Total/NA	Analysis	300.0		5	100861	09/10/13 17:35	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	101002	09/11/13 11:07	KMG	TAL CAN
Total/NA	Analysis	310.1		1	101302	09/12/13 16:47	LKG	TAL CAN
Total/NA	Prep	365.2/365.3/365			101290	09/13/13 06:58	TPH	TAL CAN
Total/NA	Analysis	365.1		1	101404	09/13/13 13:42	TPH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01D

Lab Sample ID: 240-28756-3

Date Collected: 09/06/13 11:30

Matrix: Water

Date Received: 09/06/13 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:46	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 12:10	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 14:46	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 16:46	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 15:46	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100548	09/07/13 16:30	JMB	TAL CAN
Total/NA	Analysis	300.0		1	100549	09/07/13 16:30	JMB	TAL CAN
Total/NA	Prep	365.2/365.3/365			100580	09/09/13 06:57	TPH	TAL CAN
Total/NA	Analysis	365.1		1	100714	09/09/13 13:33	TPH	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 09:31	TPH	TAL CAN
Total/NA	Analysis	SM 2540D		1	100787	09/10/13 08:37	KMG	TAL CAN
Total/NA	Analysis	SM 2540C		1	101002	09/11/13 11:07	KMG	TAL CAN
Total/NA	Analysis	310.1		1	101302	09/12/13 17:00	LKG	TAL CAN

Client Sample ID: SC01P

Lab Sample ID: 240-28756-4

Date Collected: 09/06/13 11:40

Matrix: Water

Date Received: 09/06/13 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Total/NA	Analysis	245.1		1	100895	09/10/13 11:50	AMM2	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	245.1			100593	09/09/13 15:05	LPM	TAL CAN
Dissolved	Analysis	245.1		1	100895	09/10/13 12:12	AMM2	TAL CAN
Total Recoverable	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Total Recoverable	Analysis	200.8		1	100933	09/10/13 14:54	NJT	TAL CAN
Dissolved	Filtration	FILTRATION			100581	09/09/13 07:13	LPM	TAL CAN
Dissolved	Prep	200.8			100583	09/09/13 07:36	LPM	TAL CAN
Dissolved	Analysis	200.8		1	100933	09/10/13 16:53	NJT	TAL CAN
Total/NA	Analysis	SM 3500 CR D		1	100447	09/06/13 15:48	JAK	TAL CAN
Total/NA	Analysis	300.0		1	100548	09/07/13 16:47	JMB	TAL CAN
Total/NA	Analysis	300.0		1	100549	09/07/13 16:47	JMB	TAL CAN
Total/NA	Analysis	130.2		1	100749	09/10/13 09:35	TPH	TAL CAN
Total/NA	Analysis	300.0		5	100861	09/10/13 18:27	JMB	TAL CAN
Total/NA	Analysis	SM 2540D		1	100965	09/11/13 08:24	KMG	TAL CAN
Total/NA	Analysis	SM 2540C		1	101002	09/11/13 11:07	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Client Sample ID: SC01P

Date Collected: 09/06/13 11:40

Date Received: 09/06/13 15:12

Lab Sample ID: 240-28756-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.1		1	101302	09/12/13 17:08	LKG	TAL CAN
Total/NA	Prep	365.2/365.3/365			101290	09/13/13 07:00	TPH	TAL CAN
Total/NA	Analysis	365.1		1	101404	09/13/13 13:42	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Creek Study - Event 14

TestAmerica Job ID: 240-28700-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-13 *
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
Wisconsin	State Program	5	999518190	08-31-14

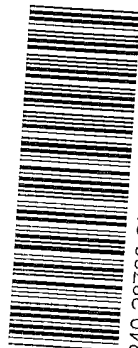
* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

Phone (330) 497-9396 Fax (330) 497-0772

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Chain of Custody Reco



america
ENVIRONMENTAL TESTING

240-28700 Chain of Custody

[illegible]

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 28700

Canton Facility

Client Colder Associates Inc. Site Name _____

Cooler unpacked by:

Cooler Received on 9-6-13 Opened on 9-6-13Wendal DeanFedEx: 1st Grd ☒ Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____TestAmerica Cooler # _____ Foam Box ☒ Client Cooler Box Other _____Packing material used: ☒ Bubble Wrap Foam Plastic Bag None Other _____COOLANT: ☒ Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF -1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 4 (CF 0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF -0 °C) Observed Cooler Temp. 3.0 °C Corrected Cooler Temp. 3.0 °C☐ See Multiple
Cooler Form2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes ☐ No-Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No ☐ NA-Were custody seals on the bottle(s)? ☒ Yes ☐ No3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No7. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No9. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No10. Were sample(s) at the correct pH upon receipt? ☒ Yes ☐ No ☐ NA pH Strip Lot# HC37606211. Were VOAs on the COC? ☒ Yes ☐ No12. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No ☐ NA13. Was a trip blank present in the cooler(s)? ☒ Yes ☐ No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Wendal Dean

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
GC09D	240-28700-B-1	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
GC09D	240-28700-C-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GC09D	240-28700-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GC09P	240-28700-B-2	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
GC09P	240-28700-C-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GC09P	240-28700-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
GCFD	240-28700-B-3	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
GCFD	240-28700-C-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GCFD	240-28700-E-3	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica Canton Sample Receipt Form/Narrative

Login #: 28756

Canton Facility

Client Golder Site Name _____

Cooler unpacked by:

Cooler Received on 9-6-13 Opened on 9-6-13David A. GreenFedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____Packing material used: Bubble Wrap Foam Plastic Bag None Other _____COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF -1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 4 (CF 0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF -0 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.2 °C☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____

Yes No

-Were custody seals on the outside of the cooler(s) signed & dated?

Yes No NA

-Were custody seals on the bottle(s)?

Yes No

3. Shippers' packing slip attached to the cooler(s)?

Yes No

4. Did custody papers accompany the sample(s)?

Yes No

5. Were the custody papers relinquished & signed in the appropriate place?

Yes No

6. Did all bottles arrive in good condition (Unbroken)?

Yes No

7. Could all bottle labels be reconciled with the COC?

Yes No

8. Were correct bottle(s) used for the test(s) indicated?

Yes No

9. Sufficient quantity received to perform indicated analyses?

Yes No

10. Were sample(s) at the correct pH upon receipt?

Yes No NA pH Strip Lot# HC376062

11. Were VOAs on the COC?

Yes No

12. Were air bubbles >6 mm in any VOA vials?

Yes No NA

13. Was a trip blank present in the cooler(s)?

Yes NoContacted PM KMB Date 9/6/13 by Am via Verbal Voice Mail Other _____Concerning #14

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

David A. GreenReceived mS/mSD volume for 50025 not marked on COC. Will log as mS/mSD per volume received.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
SC02D	240-28756-D-1	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
SC02D	240-28756-E-1	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
SC02D	240-28756-F-1	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
SC02D	240-28756-G-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC02D	240-28756-H-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC02D	240-28756-I-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC02D	240-28756-M-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
SC02D	240-28756-N-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
SC02D	240-28756-O-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
SC02P	240-28756-B-2	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
SC02P	240-28756-C-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC02P	240-28756-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
SC01D	240-28756-B-3	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
SC01D	240-28756-C-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC01D	240-28756-E-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
SC01P	240-28756-B-4	Plastic 250ml - with Sulfuric Acid	<2	_____	_____
SC01P	240-28756-C-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC01P	240-28756-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____