

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: 240-57180-1

Client Project/Site: Satralloy - Industrial SWPPP

For:

Golder Associates Inc.

1335 Dublin Road

Suite 126-D

Columbus, Ohio 43215

Attn: Mr. Bob Ireson



Authorized for release by:

11/6/2015 8:42:20 PM

Kris Brooks, Project Manager II

(330)966-9790

kris.brooks@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	10
QC Sample Results	19
QC Association Summary	22
Lab Chronicle	25
Certification Summary	28
Chain of Custody	29



Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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
CFL	Contains Free Liquid
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 - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Job ID: 240-57180-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Golder Associates Inc.

Project: Satralloy - Industrial SWPPP

Report Number: 240-57180-1

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 10/28/2015 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

The sample description has been updated to Industrial SWPPP at the clients request.

TOTAL RECOVERABLE METALS (ICPMS)

Samples DS01 (240-57180-1), GC04D (240-57180-2), GC05D (240-57180-3), GC06D (240-57180-4), GC09D (240-57180-5), SC02D (240-57180-6), SC01D (240-57180-7), US01 (240-57180-8) and FD (240-57180-9) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/29/2015 and analyzed on 10/30/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS

Samples DS01 (240-57180-1), GC04D (240-57180-2), GC05D (240-57180-3), GC06D (240-57180-4), GC09D (240-57180-5), SC02D (240-57180-6), SC01D (240-57180-7), US01 (240-57180-8) and FD (240-57180-9) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/30/2015 and 11/02/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Job ID: 240-57180-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

TOTAL SUSPENDED SOLIDS

Samples DS01 (240-57180-1), GC04D (240-57180-2), GC05D (240-57180-3), GC06D (240-57180-4), GC09D (240-57180-5), SC02D (240-57180-6), SC01D (240-57180-7), US01 (240-57180-8) and FD (240-57180-9) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/29/2015 and 10/30/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples DS01 (240-57180-1), GC04D (240-57180-2), GC05D (240-57180-3), GC06D (240-57180-4), GC09D (240-57180-5), SC02D (240-57180-6), SC01D (240-57180-7), US01 (240-57180-8) and FD (240-57180-9) were analyzed for hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 10/28/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Samples DS01 (240-57180-1), GC04D (240-57180-2), GC05D (240-57180-3), GC06D (240-57180-4), GC09D (240-57180-5), SC02D (240-57180-6), SC01D (240-57180-7), US01 (240-57180-8) and FD (240-57180-9) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 10/28/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL CAN
3500-Cr B-2009	Chromium, Hexavalent	SM	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CAN
SM 4500 H+ B	pH	SM	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-57180-1	DS01	Water	10/28/15 09:45	10/28/15 14:55
240-57180-2	GC04D	Water	10/28/15 10:25	10/28/15 14:55
240-57180-3	GC05D	Water	10/28/15 10:30	10/28/15 14:55
240-57180-4	GC06D	Water	10/28/15 10:40	10/28/15 14:55
240-57180-5	GC09D	Water	10/28/15 10:52	10/28/15 14:55
240-57180-6	SC02D	Water	10/28/15 11:25	10/28/15 14:55
240-57180-7	SC01D	Water	10/28/15 11:30	10/28/15 14:55
240-57180-8	US01	Water	10/28/15 11:54	10/28/15 14:55
240-57180-9	FD	Water	10/28/15 00:00	10/28/15 14:55

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: DS01

Lab Sample ID: 240-57180-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	3.5		2.0	0.20	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	1000		10	7.4	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	29		4.0	1.8	mg/L	1		SM 2540D	Total/NA
pH	7.98		0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: GC04D

Lab Sample ID: 240-57180-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	370		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.40		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	780		10	7.4	mg/L	1		SM 2540C	Total/NA
pH	11.1		0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: GC05D

Lab Sample ID: 240-57180-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	330		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.36		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	230		10	7.4	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	51		4.0	1.8	mg/L	1		SM 2540D	Total/NA
pH	8.18	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: GC06D

Lab Sample ID: 240-57180-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	34		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.032		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	270		10	7.4	mg/L	1		SM 2540C	Total/NA
pH	9.24	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: GC09D

Lab Sample ID: 240-57180-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	260		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.25		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	220		10	7.4	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.0		4.0	1.8	mg/L	1		SM 2540D	Total/NA
pH	8.27	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: SC02D

Lab Sample ID: 240-57180-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	55		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.051		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	420		20	15	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	33		4.0	1.8	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: SC02D (Continued)

Lab Sample ID: 240-57180-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	12.0	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: SC01D

Lab Sample ID: 240-57180-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	83		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.080		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	170		10	7.4	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.0		4.0	1.8	mg/L	1		SM 2540D	Total/NA
pH	9.99	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: US01

Lab Sample ID: 240-57180-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2.3		2.0	0.20	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	610		10	7.4	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	57		4.0	1.8	mg/L	1		SM 2540D	Total/NA
pH	8.02	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: FD

Lab Sample ID: 240-57180-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	400		2.0	0.20	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.42		0.020	0.0021	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	820		10	7.4	mg/L	1		SM 2540C	Total/NA
pH	11.0	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: DS01
Date Collected: 10/28/15 09:45
Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-1
Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	3.5		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 18:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0021		0.020	0.0021	mg/L			10/28/15 15:52	1
Total Dissolved Solids	1000		10	7.4	mg/L			10/30/15 11:51	1
Total Suspended Solids	29		4.0	1.8	mg/L			10/29/15 20:20	1
pH	7.98		0.100	0.100	SU			10/28/15 14:48	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: GC04D

Date Collected: 10/28/15 10:25

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-2

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	370		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.40		0.020	0.0021	mg/L			10/28/15 15:53	1
Total Dissolved Solids	780		10	7.4	mg/L			10/30/15 11:51	1
Total Suspended Solids	<1.8		4.0	1.8	mg/L			10/29/15 20:20	1
pH	11.1		0.100	0.100	SU			10/28/15 14:48	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: GC05D

Date Collected: 10/28/15 10:30

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-3

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	330		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.36		0.020	0.0021	mg/L			10/28/15 15:55	1
Total Dissolved Solids	230		10	7.4	mg/L			10/30/15 11:51	1
Total Suspended Solids	51		4.0	1.8	mg/L			10/29/15 20:20	1
pH	8.18	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: GC06D

Date Collected: 10/28/15 10:40

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-4

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	34		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.032		0.020	0.0021	mg/L			10/28/15 15:56	1
Total Dissolved Solids	270		10	7.4	mg/L			11/02/15 13:11	1
Total Suspended Solids	<1.8		4.0	1.8	mg/L			10/29/15 20:20	1
pH	9.24	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: GC09D

Date Collected: 10/28/15 10:52

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-5

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	260		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.25		0.020	0.0021	mg/L			10/28/15 15:57	1
Total Dissolved Solids	220		10	7.4	mg/L			11/02/15 13:11	1
Total Suspended Solids	8.0		4.0	1.8	mg/L			10/29/15 20:20	1
pH	8.27	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: SC02D

Date Collected: 10/28/15 11:25

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-6

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	55		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.051		0.020	0.0021	mg/L			10/28/15 15:58	1
Total Dissolved Solids	420		20	15	mg/L			11/02/15 13:11	1
Total Suspended Solids	33		4.0	1.8	mg/L			10/30/15 09:39	1
pH	12.0	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: SC01D

Date Collected: 10/28/15 11:30

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-7

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	83		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.080		0.020	0.0021	mg/L			10/28/15 15:59	1
Total Dissolved Solids	170		10	7.4	mg/L			11/02/15 13:11	1
Total Suspended Solids	7.0		4.0	1.8	mg/L			10/30/15 09:39	1
pH	9.99	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: US01
Date Collected: 10/28/15 11:54
Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-8
Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	2.3		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0021		0.020	0.0021	mg/L			10/28/15 16:02	1
Total Dissolved Solids	610		10	7.4	mg/L			11/02/15 13:11	1
Total Suspended Solids	57		4.0	1.8	mg/L			10/30/15 09:39	1
pH	8.02	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: FD

Date Collected: 10/28/15 00:00

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-9

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	400		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.42		0.020	0.0021	mg/L			10/28/15 16:05	1
Total Dissolved Solids	820		10	7.4	mg/L			11/02/15 13:11	1
Total Suspended Solids	<1.8		4.0	1.8	mg/L			10/30/15 09:39	1
pH	11.0	HF	0.100	0.100	SU			10/28/15 16:36	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 240-204290/1-A

Matrix: Water

Analysis Batch: 204757

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 204290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.20		2.0	0.20	ug/L		10/29/15 09:30	10/30/15 18:16	1

Lab Sample ID: LCS 240-204290/2-A

Matrix: Water

Analysis Batch: 204757

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 204290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1000	921		ug/L		92	85 - 115

Lab Sample ID: 240-57180-8 MS

Matrix: Water

Analysis Batch: 204757

Client Sample ID: US01

Prep Type: Total Recoverable

Prep Batch: 204290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	2.3		1000	875		ug/L		87	70 - 130

Lab Sample ID: 240-57180-8 MSD

Matrix: Water

Analysis Batch: 204757

Client Sample ID: US01

Prep Type: Total Recoverable

Prep Batch: 204290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	2.3		1000	885		ug/L		88	70 - 130	1	20

Method: 3500-Cr B-2009 - Chromium, Hexavalent

Lab Sample ID: MB 240-204057/37

Matrix: Water

Analysis Batch: 204057

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0021		0.020	0.0021	mg/L			10/28/15 15:50	1

Lab Sample ID: LCS 240-204057/38

Matrix: Water

Analysis Batch: 204057

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	0.224		mg/L		89	80 - 118

Lab Sample ID: 240-57180-8 MS

Matrix: Water

Analysis Batch: 204057

Client Sample ID: US01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	<0.0021		0.250	0.243		mg/L		97	41 - 136

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Method: 3500-Cr B-2009 - Chromium, Hexavalent (Continued)

Lab Sample ID: 240-57180-8 MSD

Matrix: Water

Analysis Batch: 204057

Client Sample ID: US01

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)	<0.0021		0.250	0.244		mg/L		98	41 - 136	1	20

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

Lab Sample ID: MB 240-204559/1

Matrix: Water

Analysis Batch: 204559

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	<7.4		10	7.4	mg/L			10/30/15 11:51	1

Lab Sample ID: LCS 240-204559/2

Matrix: Water

Analysis Batch: 204559

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	543	486		mg/L		90	88 - 110

Lab Sample ID: MB 240-204816/1

Matrix: Water

Analysis Batch: 204816

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	<7.4		10	7.4	mg/L			11/02/15 13:11	1

Lab Sample ID: LCS 240-204816/2

Matrix: Water

Analysis Batch: 204816

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	543	524		mg/L		97	88 - 110

Lab Sample ID: 240-57180-8 DU

Matrix: Water

Analysis Batch: 204816

Client Sample ID: US01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	610		601		mg/L		1	20

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

Lab Sample ID: MB 240-204435/1

Matrix: Water

Analysis Batch: 204435

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	<1.8		4.0	1.8	mg/L			10/29/15 20:20	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

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

Lab Sample ID: LCS 240-204435/2

Matrix: Water

Analysis Batch: 204435

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	68.6	67.0		mg/L		98	73 - 113

Lab Sample ID: MB 240-204517/1

Matrix: Water

Analysis Batch: 204517

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	<1.8		4.0	1.8	mg/L			10/30/15 09:39	1

Lab Sample ID: LCS 240-204517/2

Matrix: Water

Analysis Batch: 204517

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	68.6	67.0		mg/L		98	73 - 113

Lab Sample ID: 240-57180-8 DU

Matrix: Water

Analysis Batch: 204517

Client Sample ID: US01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	57		58.0		mg/L		2	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 240-204069/43

Matrix: Water

Analysis Batch: 204069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	6.15	6.130		SU		100	97 - 103

Lab Sample ID: 240-57180-1 DU

Matrix: Water

Analysis Batch: 204069

Client Sample ID: DS01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.98		7.970		SU		0.1	20

Lab Sample ID: 240-57180-8 DU

Matrix: Water

Analysis Batch: 204069

Client Sample ID: US01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.02	HF	7.860	HF	SU		2	20

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Metals

Prep Batch: 204290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-1	DS01	Total Recoverable	Water	200.8	
240-57180-2	GC04D	Total Recoverable	Water	200.8	
240-57180-3	GC05D	Total Recoverable	Water	200.8	
240-57180-4	GC06D	Total Recoverable	Water	200.8	
240-57180-5	GC09D	Total Recoverable	Water	200.8	
240-57180-6	SC02D	Total Recoverable	Water	200.8	
240-57180-7	SC01D	Total Recoverable	Water	200.8	
240-57180-8	US01	Total Recoverable	Water	200.8	
240-57180-8 MS	US01	Total Recoverable	Water	200.8	
240-57180-8 MSD	US01	Total Recoverable	Water	200.8	
240-57180-9	FD	Total Recoverable	Water	200.8	
LCS 240-204290/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 240-204290/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 204757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-1	DS01	Total Recoverable	Water	200.8	204290
240-57180-2	GC04D	Total Recoverable	Water	200.8	204290
240-57180-3	GC05D	Total Recoverable	Water	200.8	204290
240-57180-4	GC06D	Total Recoverable	Water	200.8	204290
240-57180-5	GC09D	Total Recoverable	Water	200.8	204290
240-57180-6	SC02D	Total Recoverable	Water	200.8	204290
240-57180-7	SC01D	Total Recoverable	Water	200.8	204290
240-57180-8	US01	Total Recoverable	Water	200.8	204290
240-57180-8 MS	US01	Total Recoverable	Water	200.8	204290
240-57180-8 MSD	US01	Total Recoverable	Water	200.8	204290
240-57180-9	FD	Total Recoverable	Water	200.8	204290
LCS 240-204290/2-A	Lab Control Sample	Total Recoverable	Water	200.8	204290
MB 240-204290/1-A	Method Blank	Total Recoverable	Water	200.8	204290

General Chemistry

Analysis Batch: 204057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-1	DS01	Total/NA	Water	3500-Cr B-2009	
240-57180-2	GC04D	Total/NA	Water	3500-Cr B-2009	
240-57180-3	GC05D	Total/NA	Water	3500-Cr B-2009	
240-57180-4	GC06D	Total/NA	Water	3500-Cr B-2009	
240-57180-5	GC09D	Total/NA	Water	3500-Cr B-2009	
240-57180-6	SC02D	Total/NA	Water	3500-Cr B-2009	
240-57180-7	SC01D	Total/NA	Water	3500-Cr B-2009	
240-57180-8	US01	Total/NA	Water	3500-Cr B-2009	
240-57180-8 MS	US01	Total/NA	Water	3500-Cr B-2009	
240-57180-8 MSD	US01	Total/NA	Water	3500-Cr B-2009	
240-57180-9	FD	Total/NA	Water	3500-Cr B-2009	
LCS 240-204057/38	Lab Control Sample	Total/NA	Water	3500-Cr B-2009	
MB 240-204057/37	Method Blank	Total/NA	Water	3500-Cr B-2009	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

General Chemistry (Continued)

Analysis Batch: 204069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-1	DS01	Total/NA	Water	SM 4500 H+ B	
240-57180-1 DU	DS01	Total/NA	Water	SM 4500 H+ B	
240-57180-2	GC04D	Total/NA	Water	SM 4500 H+ B	
240-57180-3	GC05D	Total/NA	Water	SM 4500 H+ B	
240-57180-4	GC06D	Total/NA	Water	SM 4500 H+ B	
240-57180-5	GC09D	Total/NA	Water	SM 4500 H+ B	
240-57180-6	SC02D	Total/NA	Water	SM 4500 H+ B	
240-57180-7	SC01D	Total/NA	Water	SM 4500 H+ B	
240-57180-8	US01	Total/NA	Water	SM 4500 H+ B	
240-57180-8 DU	US01	Total/NA	Water	SM 4500 H+ B	
240-57180-9	FD	Total/NA	Water	SM 4500 H+ B	
LCS 240-204069/43	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 204435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-1	DS01	Total/NA	Water	SM 2540D	
240-57180-2	GC04D	Total/NA	Water	SM 2540D	
240-57180-3	GC05D	Total/NA	Water	SM 2540D	
240-57180-4	GC06D	Total/NA	Water	SM 2540D	
240-57180-5	GC09D	Total/NA	Water	SM 2540D	
LCS 240-204435/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-204435/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 204517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-6	SC02D	Total/NA	Water	SM 2540D	
240-57180-7	SC01D	Total/NA	Water	SM 2540D	
240-57180-8	US01	Total/NA	Water	SM 2540D	
240-57180-8 DU	US01	Total/NA	Water	SM 2540D	
240-57180-9	FD	Total/NA	Water	SM 2540D	
LCS 240-204517/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-204517/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 204559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-1	DS01	Total/NA	Water	SM 2540C	
240-57180-2	GC04D	Total/NA	Water	SM 2540C	
240-57180-3	GC05D	Total/NA	Water	SM 2540C	
LCS 240-204559/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-204559/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 204816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57180-4	GC06D	Total/NA	Water	SM 2540C	
240-57180-5	GC09D	Total/NA	Water	SM 2540C	
240-57180-6	SC02D	Total/NA	Water	SM 2540C	
240-57180-7	SC01D	Total/NA	Water	SM 2540C	
240-57180-8	US01	Total/NA	Water	SM 2540C	
240-57180-8 DU	US01	Total/NA	Water	SM 2540C	
240-57180-9	FD	Total/NA	Water	SM 2540C	
LCS 240-204816/2	Lab Control Sample	Total/NA	Water	SM 2540C	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

General Chemistry (Continued)

Analysis Batch: 204816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-204816/1	Method Blank	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: DS01
Date Collected: 10/28/15 09:45
Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 18:57	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:52	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204559	10/30/15 11:51	JMB	TAL CAN
Total/NA	Analysis	SM 2540D		1	204435	10/29/15 20:20	JWW	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 14:48	LKG	TAL CAN

Client Sample ID: GC04D
Date Collected: 10/28/15 10:25
Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:01	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:53	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204559	10/30/15 11:51	JMB	TAL CAN
Total/NA	Analysis	SM 2540D		1	204435	10/29/15 20:20	JWW	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 14:48	LKG	TAL CAN

Client Sample ID: GC05D
Date Collected: 10/28/15 10:30
Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:04	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:55	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204559	10/30/15 11:51	JMB	TAL CAN
Total/NA	Analysis	SM 2540D		1	204435	10/29/15 20:20	JWW	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	TAL CAN

Client Sample ID: GC06D
Date Collected: 10/28/15 10:40
Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:08	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:56	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204816	11/02/15 13:11	JWW	TAL CAN
Total/NA	Analysis	SM 2540D		1	204435	10/29/15 20:20	JWW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: GC06D

Date Collected: 10/28/15 10:40

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	TAL CAN

Client Sample ID: GC09D

Date Collected: 10/28/15 10:52

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:12	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:57	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204816	11/02/15 13:11	JWW	TAL CAN
Total/NA	Analysis	SM 2540D		1	204435	10/29/15 20:20	JWW	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	TAL CAN

Client Sample ID: SC02D

Date Collected: 10/28/15 11:25

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:15	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:58	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204816	11/02/15 13:11	JWW	TAL CAN
Total/NA	Analysis	SM 2540D		1	204517	10/30/15 09:39	JMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	TAL CAN

Client Sample ID: SC01D

Date Collected: 10/28/15 11:30

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:19	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 15:59	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204816	11/02/15 13:11	JWW	TAL CAN
Total/NA	Analysis	SM 2540D		1	204517	10/30/15 09:39	JMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

Client Sample ID: US01

Date Collected: 10/28/15 11:54

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 18:23	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 16:02	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204816	11/02/15 13:11	JWW	TAL CAN
Total/NA	Analysis	SM 2540D		1	204517	10/30/15 09:39	JMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	TAL CAN

Client Sample ID: FD

Date Collected: 10/28/15 00:00

Date Received: 10/28/15 14:55

Lab Sample ID: 240-57180-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			204290	10/29/15 09:30	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	204757	10/30/15 19:22	AS1	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	204057	10/28/15 16:05	LCN	TAL CAN
Total/NA	Analysis	SM 2540C		1	204816	11/02/15 13:11	JWW	TAL CAN
Total/NA	Analysis	SM 2540D		1	204517	10/30/15 09:39	JMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	204069	10/28/15 16:36	LKG	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 - Industrial SWPPP

TestAmerica Job ID: 240-57180-1

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 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	11-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-57180 Chain of Custody

[illegible]

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>
DS01	240-57180-A-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GC04D	240-57180-A-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GC05D	240-57180-A-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GC06D	240-57180-A-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
GC09D	240-57180-A-5	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC02D	240-57180-A-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
SC01D	240-57180-A-7	Plastic 250ml - with Nitric Acid	<2	_____	_____
US01	240-57180-A-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
US01	240-57180-B-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
US01	240-57180-C-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
FD	240-57180-A-9	Plastic 250ml - with Nitric Acid	<2	_____	_____