

# 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: 240-36748-1

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:

5/9/2014 8:38:07 PM

Kris Brooks, Project Manager II

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*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.*

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## Definitions/Glossary

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

TestAmerica Job ID: 240-36748-1

### 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                                                                                            |
| 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: 240-36748-1

**Job ID: 240-36748-1**

**Laboratory: TestAmerica Canton**

### Narrative

#### CASE NARRATIVE

**Client: Golder Associates Inc.**

**Project: Satralloy - Industrial SWPPP**

**Report Number: 240-36748-1**

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 5/1/2014 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

#### TOTAL RECOVERABLE METALS (ICPMS)

Samples FD (240-36748-1), GC01D (240-36748-2), GC02D (240-36748-3), GC04D (240-36748-4), GC05D (240-36748-5), GC06D (240-36748-6), GC09D (240-36748-7), UP01 (240-36748-8) and DS01 (240-36748-9) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/02/2014 and analyzed on 05/05/2014.

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

#### TOTAL DISSOLVED SOLIDS

Samples FD (240-36748-1), GC01D (240-36748-2), GC02D (240-36748-3), GC04D (240-36748-4), GC05D (240-36748-5), GC06D (240-36748-6), GC09D (240-36748-7), UP01 (240-36748-8) and DS01 (240-36748-9) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 05/07/2014.

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

#### TOTAL SUSPENDED SOLIDS

Samples FD (240-36748-1), GC01D (240-36748-2), GC02D (240-36748-3), GC04D (240-36748-4), GC05D (240-36748-5), GC06D

## Case Narrative

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

TestAmerica Job ID: 240-36748-1

### Job ID: 240-36748-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

(240-36748-6), GC09D (240-36748-7), UP01 (240-36748-8) and DS01 (240-36748-9) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 05/05/2014 and 05/06/2014.

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

#### HEXAVALENT CHROMIUM

Samples FD (240-36748-1), GC01D (240-36748-2), GC02D (240-36748-3), GC04D (240-36748-4), GC05D (240-36748-5), GC06D (240-36748-6), GC09D (240-36748-7), UP01 (240-36748-8) and DS01 (240-36748-9) were analyzed for hexavalent chromium in accordance with SM 3500 CR D. The samples were analyzed on 05/01/2014.

Samples FD (240-36748-1)[2X], GC04D (240-36748-4)[2X] and GC05D (240-36748-5)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

#### PH

Samples FD (240-36748-1), GC01D (240-36748-2), GC02D (240-36748-3), GC04D (240-36748-4), GC05D (240-36748-5), GC06D (240-36748-6), GC09D (240-36748-7), UP01 (240-36748-8) and DS01 (240-36748-9) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 05/06/2014.

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

## Method Summary

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

TestAmerica Job ID: 240-36748-1

| Method       | Method Description            | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| 200.8        | Metals (ICP/MS)               | 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    |
| 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.

TestAmerica Job ID: 240-36748-1

Project/Site: Satralloy - Industrial SWPPP

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-36748-1   | FD               | Water  | 04/30/14 13:30 | 05/01/14 09:20 |
| 240-36748-2   | GC01D            | Water  | 04/30/14 12:35 | 05/01/14 09:20 |
| 240-36748-3   | GC02D            | Water  | 04/30/14 12:45 | 05/01/14 09:20 |
| 240-36748-4   | GC04D            | Water  | 04/30/14 13:25 | 05/01/14 09:20 |
| 240-36748-5   | GC05D            | Water  | 04/30/14 13:30 | 05/01/14 09:20 |
| 240-36748-6   | GC06D            | Water  | 04/30/14 13:42 | 05/01/14 09:20 |
| 240-36748-7   | GC09D            | Water  | 04/30/14 13:49 | 05/01/14 09:20 |
| 240-36748-8   | UP01             | Water  | 04/30/14 12:18 | 05/01/14 09:20 |
| 240-36748-9   | DS01             | Water  | 04/30/14 13:14 | 05/01/14 09:20 |

## Detection Summary

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

TestAmerica Job ID: 240-36748-1

### Client Sample ID: FD

### Lab Sample ID: 240-36748-1

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|----------------------|
| Chromium               | 620    |           | 2.0   | 2.0    | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 550    |           | 10    | 10     | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 170    |           | 4.0   | 4.0    | mg/L | 1       |   | SM 2540D     | Total/NA             |
| Cr (VI)                | 0.69   |           | 0.020 | 0.0038 | mg/L | 2       |   | SM 3500 CR D | Total/NA             |
| pH                     | 8.61   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: GC01D

### Lab Sample ID: 240-36748-2

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|----------------------|
| Chromium               | 64     |           | 2.0   | 2.0    | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 160    |           | 10    | 10     | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 9.0    |           | 4.0   | 4.0    | mg/L | 1       |   | SM 2540D     | Total/NA             |
| Cr (VI)                | 0.067  |           | 0.010 | 0.0019 | mg/L | 1       |   | SM 3500 CR D | Total/NA             |
| pH                     | 9.65   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: GC02D

### Lab Sample ID: 240-36748-3

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|----------------------|
| Chromium               | 29     |           | 2.0   | 2.0    | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 320    |           | 10    | 10     | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 28     |           | 4.0   | 4.0    | mg/L | 1       |   | SM 2540D     | Total/NA             |
| Cr (VI)                | 0.015  |           | 0.010 | 0.0019 | mg/L | 1       |   | SM 3500 CR D | Total/NA             |
| pH                     | 12.1   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: GC04D

### Lab Sample ID: 240-36748-4

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|----------------------|
| Chromium               | 550    |           | 2.0   | 2.0    | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 840    |           | 10    | 10     | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Cr (VI)                | 0.53   |           | 0.020 | 0.0038 | mg/L | 2       |   | SM 3500 CR D | Total/NA             |
| pH                     | 11.6   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: GC05D

### Lab Sample ID: 240-36748-5

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|----------------------|
| Chromium               | 600    |           | 2.0   | 2.0    | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 550    |           | 10    | 10     | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 170    |           | 4.0   | 4.0    | mg/L | 1       |   | SM 2540D     | Total/NA             |
| Cr (VI)                | 0.74   |           | 0.020 | 0.0038 | mg/L | 2       |   | SM 3500 CR D | Total/NA             |
| pH                     | 8.62   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: GC06D

### Lab Sample ID: 240-36748-6

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method   | Prep Type            |
|------------------------|--------|-----------|-----|-----|------|---------|---|----------|----------------------|
| Chromium               | 61     |           | 2.0 | 2.0 | ug/L | 1       |   | 200.8    | Total<br>Recoverable |
| Total Dissolved Solids | 510    |           | 10  | 10  | mg/L | 1       |   | SM 2540C | 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: 240-36748-1

### Client Sample ID: GC06D (Continued)

Lab Sample ID: 240-36748-6

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|-----------|
| Total Suspended Solids | 29     |           | 4.0   | 4.0    | mg/L | 1       |   | SM 2540D     | Total/NA  |
| Cr (VI)                | 0.026  |           | 0.010 | 0.0019 | mg/L | 1       |   | SM 3500 CR D | Total/NA  |
| pH                     | 8.13   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA  |

### Client Sample ID: GC09D

Lab Sample ID: 240-36748-7

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|--------|------|---------|---|--------------|----------------------|
| Chromium               | 260    |           | 2.0   | 2.0    | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 270    |           | 10    | 10     | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 44     |           | 4.0   | 4.0    | mg/L | 1       |   | SM 2540D     | Total/NA             |
| Cr (VI)                | 0.22   |           | 0.010 | 0.0019 | mg/L | 1       |   | SM 3500 CR D | Total/NA             |
| pH                     | 8.42   | HF        | 0.100 | 0.100  | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: UP01

Lab Sample ID: 240-36748-8

| Analyte                | Result | Qualifier | RL    | MDL   | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|-------|------|---------|---|--------------|----------------------|
| Chromium               | 2.9    |           | 2.0   | 2.0   | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 370    |           | 10    | 10    | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 74     |           | 4.0   | 4.0   | mg/L | 1       |   | SM 2540D     | Total/NA             |
| pH                     | 7.96   | HF        | 0.100 | 0.100 | SU   | 1       |   | SM 4500 H+ B | Total/NA             |

### Client Sample ID: DS01

Lab Sample ID: 240-36748-9

| Analyte                | Result | Qualifier | RL    | MDL   | Unit | Dil Fac | D | Method       | Prep Type            |
|------------------------|--------|-----------|-------|-------|------|---------|---|--------------|----------------------|
| Chromium               | 3.3    |           | 2.0   | 2.0   | ug/L | 1       |   | 200.8        | Total<br>Recoverable |
| Total Dissolved Solids | 520    |           | 10    | 10    | mg/L | 1       |   | SM 2540C     | Total/NA             |
| Total Suspended Solids | 84     |           | 4.0   | 4.0   | mg/L | 1       |   | SM 2540D     | Total/NA             |
| pH                     | 8.01   | 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: 240-36748-1

**Client Sample ID: FD**

**Date Collected: 04/30/14 13:30**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-1**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 620    |           | 2.0 | 2.0 | ug/L |   | 05/02/14 08:31 | 05/05/14 13:19 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 550    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 170    |           | 4.0   | 4.0    | mg/L |   |          | 05/05/14 09:33 | 1       |
| Cr (VI)                | 0.69   |           | 0.020 | 0.0038 | mg/L |   |          | 05/01/14 11:44 | 2       |
| pH                     | 8.61   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 08:54 | 1       |

TestAmerica Canton

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC01D**

**Date Collected: 04/30/14 12:35**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-2**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 64     |           | 2.0 | 2.0 | ug/L |   | 05/02/14 08:31 | 05/05/14 13:41 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 160    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 9.0    |           | 4.0   | 4.0    | mg/L |   |          | 05/05/14 09:33 | 1       |
| Cr (VI)                | 0.067  |           | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:02 | 1       |
| pH                     | 9.65   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 09:05 | 1       |

TestAmerica Canton

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC02D**

**Date Collected: 04/30/14 12:45**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-3**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 29     |           | 2.0 | 2.0 | ug/L |   | 05/02/14 08:31 | 05/05/14 13:48 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 320    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 28     |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | 0.015  |           | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:02 | 1       |
| pH                     | 12.1   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 09:15 | 1       |

TestAmerica Canton

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC04D**

**Lab Sample ID: 240-36748-4**

**Date Collected: 04/30/14 13:25**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 550    |           | 2.0 | 2.0 | ug/L |   | 05/02/14 08:31 | 05/05/14 13:55 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 840    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | <4.0   |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | 0.53   |           | 0.020 | 0.0038 | mg/L |   |          | 05/01/14 11:02 | 2       |
| pH                     | 11.6   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 09:25 | 1       |

TestAmerica Canton

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC05D**

**Date Collected: 04/30/14 13:30**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-5**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 600    |           | 2.0 | 2.0 | ug/L |   | 05/02/14 07:49 | 05/05/14 18:18 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 550    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 170    |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | 0.74   |           | 0.020 | 0.0038 | mg/L |   |          | 05/01/14 11:02 | 2       |
| pH                     | 8.62   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 09:36 | 1       |

TestAmerica Canton

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC06D**

**Lab Sample ID: 240-36748-6**

**Date Collected: 04/30/14 13:42**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 61     |           | 2.0 | 2.0 | ug/L |   | 05/02/14 07:49 | 05/05/14 20:54 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 510    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 29     |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | 0.026  |           | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:44 | 1       |
| pH                     | 8.13   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 09:46 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC09D**

**Date Collected: 04/30/14 13:49**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-7**

**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 | 2.0 | ug/L |   | 05/02/14 07:49 | 05/05/14 21:01 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 270    |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 44     |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | 0.22   |           | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:44 | 1       |
| pH                     | 8.42   | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 09:56 | 1       |

TestAmerica Canton



# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: UP01**

**Date Collected: 04/30/14 12:18**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-8**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 2.9    |           | 2.0 | 2.0 | ug/L |   | 05/02/14 07:49 | 05/05/14 21:08 | 1       |

## General Chemistry

| Analyte                | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 370     |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 74      |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | <0.0019 |           | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:44 | 1       |
| pH                     | 7.96    | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 10:07 | 1       |

TestAmerica Canton

# Client Sample Results

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: DS01**

**Date Collected: 04/30/14 13:14**

**Date Received: 05/01/14 09:20**

**Lab Sample ID: 240-36748-9**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 3.3    |           | 2.0 | 2.0 | ug/L |   | 05/02/14 07:49 | 05/05/14 21:15 | 1       |

## General Chemistry

| Analyte                | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 520     |           | 10    | 10     | mg/L |   |          | 05/07/14 09:14 | 1       |
| Total Suspended Solids | 84      |           | 4.0   | 4.0    | mg/L |   |          | 05/06/14 10:11 | 1       |
| Cr (VI)                | <0.0019 |           | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:02 | 1       |
| pH                     | 8.01    | HF        | 0.100 | 0.100  | SU   |   |          | 05/06/14 10:17 | 1       |

TestAmerica Canton

# QC Sample Results

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

TestAmerica Job ID: 240-36748-1

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

Lab Sample ID: MB 240-128855/1-A  
Matrix: Water  
Analysis Batch: 129386

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 128855

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | <2.0      |              | 2.0 | 2.0 | ug/L |   | 05/02/14 07:49 | 05/05/14 18:04 | 1       |

Lab Sample ID: LCS 240-128855/2-A  
Matrix: Water  
Analysis Batch: 129386

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 128855

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chromium | 1000        | 926        |               | ug/L |   | 93   | 85 - 115     |

Lab Sample ID: 240-36748-5 MS  
Matrix: Water  
Analysis Batch: 129386

Client Sample ID: GC05D  
Prep Type: Total Recoverable  
Prep Batch: 128855

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chromium | 600           |                  | 1000        | 1540      |              | ug/L |   | 94   | 70 - 130     |

Lab Sample ID: 240-36748-5 MSD  
Matrix: Water  
Analysis Batch: 129386

Client Sample ID: GC05D  
Prep Type: Total Recoverable  
Prep Batch: 128855

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chromium | 600           |                  | 1000        | 1530       |               | ug/L |   | 93   | 70 - 130     | 1   | 20        |

Lab Sample ID: MB 240-128870/1-A  
Matrix: Water  
Analysis Batch: 129386

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 128870

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | <2.0      |              | 2.0 | 2.0 | ug/L |   | 05/02/14 08:31 | 05/05/14 12:16 | 1       |

Lab Sample ID: LCS 240-128870/3-A  
Matrix: Water  
Analysis Batch: 129386

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 128870

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chromium | 1000        | 943        |               | ug/L |   | 94   | 85 - 115     |

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

Lab Sample ID: MB 240-129633/1  
Matrix: Water  
Analysis Batch: 129633

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 |   |          | 05/07/14 09:14 | 1       |

TestAmerica Canton

# QC Sample Results

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

TestAmerica Job ID: 240-36748-1

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

Lab Sample ID: LCS 240-129633/2

Matrix: Water

Analysis Batch: 129633

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 | 622         | 594        |               | mg/L |   | 95   | 88 - 110     |

Lab Sample ID: 240-36748-7 DU

Matrix: Water

Analysis Batch: 129633

Client Sample ID: GC09D

Prep Type: Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 270           |                  | 278       |              | mg/L |   | 3   | 20        |

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

Lab Sample ID: MB 240-129257/1

Matrix: Water

Analysis Batch: 129257

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 |   |          | 05/05/14 09:33 | 1       |

Lab Sample ID: LCS 240-129257/2

Matrix: Water

Analysis Batch: 129257

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 | 46.3        | 35.0       |               | mg/L |   | 76   | 73 - 113     |

Lab Sample ID: MB 240-129455/1

Matrix: Water

Analysis Batch: 129455

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 |   |          | 05/06/14 10:11 | 1       |

Lab Sample ID: LCS 240-129455/2

Matrix: Water

Analysis Batch: 129455

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 | 46.3        | 39.0       |               | mg/L |   | 84   | 73 - 113     |

Lab Sample ID: 240-36748-3 DU

Matrix: Water

Analysis Batch: 129455

Client Sample ID: GC02D

Prep Type: Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Suspended Solids | 28            |                  | 29.0      |              | mg/L |   | 4   | 10        |

TestAmerica Canton

# QC Sample Results

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

TestAmerica Job ID: 240-36748-1

## Method: SM 3500 CR D - Chromium, Hexavalent

Lab Sample ID: MB 240-128748/11

Matrix: Water

Analysis Batch: 128748

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB<br>Result | MB<br>Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI) | <0.0019      |                 | 0.010 | 0.0019 | mg/L |   |          | 05/01/14 11:02 | 1       |

Lab Sample ID: LCS 240-128748/12

Matrix: Water

Analysis Batch: 128748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Cr (VI) | 0.250          | 0.217         |                  | mg/L |   | 87   | 80 - 118        |

Lab Sample ID: 240-36748-9 MS

Matrix: Water

Analysis Batch: 128748

Client Sample ID: DS01

Prep Type: Total/NA

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Cr (VI) | <0.0019          |                     | 0.250          | 0.236        |                 | mg/L |   | 95   | 41 - 136        |

Lab Sample ID: 240-36748-9 MSD

Matrix: Water

Analysis Batch: 128748

Client Sample ID: DS01

Prep Type: Total/NA

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Cr (VI) | <0.0019          |                     | 0.250          | 0.224         |                  | mg/L |   | 90   | 41 - 136        | 5   | 20           |

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 240-129417/2

Matrix: Water

Analysis Batch: 129417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| pH      | 6.47           | 6.490         |                  | SU   |   | 100  | 97 - 103        |
| pH      | 6.47           | 6.490         |                  | SU   |   | 100  | 97 - 103        |

Lab Sample ID: 240-36748-1 DU

Matrix: Water

Analysis Batch: 129417

Client Sample ID: FD

Prep Type: Total/NA

| Analyte | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|---------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| pH      | 8.61             |                     | 8.600        |                 | SU   |   | 0.1 | 20           |
| pH      | 8.61             |                     | 8.600        |                 | SU   |   | 0.1 | 20           |

TestAmerica Canton

# QC Association Summary

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

TestAmerica Job ID: 240-36748-1

## Metals

### Prep Batch: 128855

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-36748-5        | GC05D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-5 MS     | GC05D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-5 MSD    | GC05D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-6        | GC06D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-7        | GC09D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-8        | UP01               | Total Recoverable | Water  | 200.8  |            |
| 240-36748-9        | DS01               | Total Recoverable | Water  | 200.8  |            |
| LCS 240-128855/2-A | Lab Control Sample | Total Recoverable | Water  | 200.8  |            |
| MB 240-128855/1-A  | Method Blank       | Total Recoverable | Water  | 200.8  |            |

### Prep Batch: 128870

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-36748-1        | FD                 | Total Recoverable | Water  | 200.8  |            |
| 240-36748-2        | GC01D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-3        | GC02D              | Total Recoverable | Water  | 200.8  |            |
| 240-36748-4        | GC04D              | Total Recoverable | Water  | 200.8  |            |
| LCS 240-128870/3-A | Lab Control Sample | Total Recoverable | Water  | 200.8  |            |
| MB 240-128870/1-A  | Method Blank       | Total Recoverable | Water  | 200.8  |            |

### Analysis Batch: 129386

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-36748-1        | FD                 | Total Recoverable | Water  | 200.8  | 128870     |
| 240-36748-2        | GC01D              | Total Recoverable | Water  | 200.8  | 128870     |
| 240-36748-3        | GC02D              | Total Recoverable | Water  | 200.8  | 128870     |
| 240-36748-4        | GC04D              | Total Recoverable | Water  | 200.8  | 128870     |
| 240-36748-5        | GC05D              | Total Recoverable | Water  | 200.8  | 128855     |
| 240-36748-5 MS     | GC05D              | Total Recoverable | Water  | 200.8  | 128855     |
| 240-36748-5 MSD    | GC05D              | Total Recoverable | Water  | 200.8  | 128855     |
| 240-36748-6        | GC06D              | Total Recoverable | Water  | 200.8  | 128855     |
| 240-36748-7        | GC09D              | Total Recoverable | Water  | 200.8  | 128855     |
| 240-36748-8        | UP01               | Total Recoverable | Water  | 200.8  | 128855     |
| 240-36748-9        | DS01               | Total Recoverable | Water  | 200.8  | 128855     |
| LCS 240-128855/2-A | Lab Control Sample | Total Recoverable | Water  | 200.8  | 128855     |
| LCS 240-128870/3-A | Lab Control Sample | Total Recoverable | Water  | 200.8  | 128870     |
| MB 240-128855/1-A  | Method Blank       | Total Recoverable | Water  | 200.8  | 128855     |
| MB 240-128870/1-A  | Method Blank       | Total Recoverable | Water  | 200.8  | 128870     |

## General Chemistry

### Analysis Batch: 128748

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method       | Prep Batch |
|---------------|------------------|-----------|--------|--------------|------------|
| 240-36748-1   | FD               | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-2   | GC01D            | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-3   | GC02D            | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-4   | GC04D            | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-5   | GC05D            | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-6   | GC06D            | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-7   | GC09D            | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-8   | UP01             | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-9   | DS01             | Total/NA  | Water  | SM 3500 CR D |            |

TestAmerica Canton

# QC Association Summary

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

TestAmerica Job ID: 240-36748-1

## General Chemistry (Continued)

### Analysis Batch: 128748 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|-------------------|--------------------|-----------|--------|--------------|------------|
| 240-36748-9 MS    | DS01               | Total/NA  | Water  | SM 3500 CR D |            |
| 240-36748-9 MSD   | DS01               | Total/NA  | Water  | SM 3500 CR D |            |
| LCS 240-128748/12 | Lab Control Sample | Total/NA  | Water  | SM 3500 CR D |            |
| MB 240-128748/11  | Method Blank       | Total/NA  | Water  | SM 3500 CR D |            |

### Analysis Batch: 129257

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-36748-1      | FD                 | Total/NA  | Water  | SM 2540D |            |
| 240-36748-2      | GC01D              | Total/NA  | Water  | SM 2540D |            |
| LCS 240-129257/2 | Lab Control Sample | Total/NA  | Water  | SM 2540D |            |
| MB 240-129257/1  | Method Blank       | Total/NA  | Water  | SM 2540D |            |

### Analysis Batch: 129417

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 240-36748-1      | FD                 | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-1 DU   | FD                 | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-2      | GC01D              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-3      | GC02D              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-4      | GC04D              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-5      | GC05D              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-6      | GC06D              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-7      | GC09D              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-8      | UP01               | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-36748-9      | DS01               | Total/NA  | Water  | SM 4500 H+ B |            |
| LCS 240-129417/2 | Lab Control Sample | Total/NA  | Water  | SM 4500 H+ B |            |

### Analysis Batch: 129455

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-36748-3      | GC02D              | Total/NA  | Water  | SM 2540D |            |
| 240-36748-3 DU   | GC02D              | Total/NA  | Water  | SM 2540D |            |
| 240-36748-4      | GC04D              | Total/NA  | Water  | SM 2540D |            |
| 240-36748-5      | GC05D              | Total/NA  | Water  | SM 2540D |            |
| 240-36748-6      | GC06D              | Total/NA  | Water  | SM 2540D |            |
| 240-36748-7      | GC09D              | Total/NA  | Water  | SM 2540D |            |
| 240-36748-8      | UP01               | Total/NA  | Water  | SM 2540D |            |
| 240-36748-9      | DS01               | Total/NA  | Water  | SM 2540D |            |
| LCS 240-129455/2 | Lab Control Sample | Total/NA  | Water  | SM 2540D |            |
| MB 240-129455/1  | Method Blank       | Total/NA  | Water  | SM 2540D |            |

### Analysis Batch: 129633

| Lab Sample ID  | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 240-36748-1    | FD               | Total/NA  | Water  | SM 2540C |            |
| 240-36748-2    | GC01D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-3    | GC02D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-4    | GC04D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-5    | GC05D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-6    | GC06D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-7    | GC09D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-7 DU | GC09D            | Total/NA  | Water  | SM 2540C |            |
| 240-36748-8    | UP01             | Total/NA  | Water  | SM 2540C |            |
| 240-36748-9    | DS01             | Total/NA  | Water  | SM 2540C |            |

TestAmerica Canton

## QC Association Summary

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

TestAmerica Job ID: 240-36748-1

### General Chemistry (Continued)

#### Analysis Batch: 129633 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| LCS 240-129633/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |
| MB 240-129633/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |



# Lab Chronicle

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

TestAmerica Job ID: 240-36748-1

## Client Sample ID: FD

Date Collected: 04/30/14 13:30

Date Received: 05/01/14 09:20

## Lab Sample ID: 240-36748-1

Matrix: Water

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128870       | 05/02/14 08:31       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 13:19       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129257       | 05/05/14 09:33       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 2               | 128748       | 05/01/14 11:44       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 08:54       | WAL     | TAL CAN |

## Client Sample ID: GC01D

Date Collected: 04/30/14 12:35

Date Received: 05/01/14 09:20

## Lab Sample ID: 240-36748-2

Matrix: Water

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128870       | 05/02/14 08:31       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 13:41       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129257       | 05/05/14 09:33       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 1               | 128748       | 05/01/14 11:02       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 09:05       | WAL     | TAL CAN |

## Client Sample ID: GC02D

Date Collected: 04/30/14 12:45

Date Received: 05/01/14 09:20

## Lab Sample ID: 240-36748-3

Matrix: Water

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128870       | 05/02/14 08:31       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 13:48       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 1               | 128748       | 05/01/14 11:02       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 09:15       | WAL     | TAL CAN |

## Client Sample ID: GC04D

Date Collected: 04/30/14 13:25

Date Received: 05/01/14 09:20

## Lab Sample ID: 240-36748-4

Matrix: Water

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128870       | 05/02/14 08:31       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 13:55       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 2               | 128748       | 05/01/14 11:02       | WAL     | TAL CAN |

TestAmerica Canton

## Lab Chronicle

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: GC04D**

**Lab Sample ID: 240-36748-4**

**Date Collected: 04/30/14 13:25**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 09:25       | WAL     | TAL CAN |

**Client Sample ID: GC05D**

**Lab Sample ID: 240-36748-5**

**Date Collected: 04/30/14 13:30**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128855       | 05/02/14 07:49       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 18:18       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 2               | 128748       | 05/01/14 11:02       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 09:36       | WAL     | TAL CAN |

**Client Sample ID: GC06D**

**Lab Sample ID: 240-36748-6**

**Date Collected: 04/30/14 13:42**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128855       | 05/02/14 07:49       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 20:54       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 1               | 128748       | 05/01/14 11:44       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 09:46       | WAL     | TAL CAN |

**Client Sample ID: GC09D**

**Lab Sample ID: 240-36748-7**

**Date Collected: 04/30/14 13:49**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128855       | 05/02/14 07:49       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 21:01       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 1               | 128748       | 05/01/14 11:44       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 09:56       | WAL     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

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

TestAmerica Job ID: 240-36748-1

**Client Sample ID: UP01**

**Lab Sample ID: 240-36748-8**

**Date Collected: 04/30/14 12:18**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128855       | 05/02/14 07:49       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 21:08       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 1               | 128748       | 05/01/14 11:44       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 10:07       | WAL     | TAL CAN |

**Client Sample ID: DS01**

**Lab Sample ID: 240-36748-9**

**Date Collected: 04/30/14 13:14**

**Matrix: Water**

**Date Received: 05/01/14 09:20**

| Prep Type         | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8        |     |                 | 128855       | 05/02/14 07:49       | LPM     | TAL CAN |
| Total Recoverable | Analysis   | 200.8        |     | 1               | 129386       | 05/05/14 21:15       | NJT     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C     |     | 1               | 129633       | 05/07/14 09:14       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 2540D     |     | 1               | 129455       | 05/06/14 10:11       | AS      | TAL CAN |
| Total/NA          | Analysis   | SM 3500 CR D |     | 1               | 128748       | 05/01/14 11:02       | WAL     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B |     | 1               | 129417       | 05/06/14 10:17       | WAL     | 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: 240-36748-1

### Laboratory: TestAmerica Canton

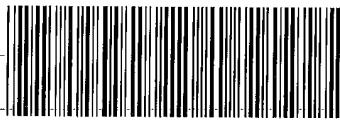
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-14        |
| Florida           | NELAP         | 4          | E87225           | 06-30-14 *      |
| Georgia           | State Program | 4          | N/A              | 06-30-14 *      |
| Illinois          | NELAP         | 5          | 200004           | 07-31-14 *      |
| Kansas            | NELAP         | 7          | E-10336          | 01-31-15        |
| Kentucky (UST)    | State Program | 4          | 58               | 06-30-14 *      |
| L-A-B             | DoD ELAP      |            | L2315            | 07-18-16        |
| Minnesota         | NELAP         | 5          | 039-999-348      | 12-31-14        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-14 *      |
| New Jersey        | NELAP         | 2          | OH001            | 06-30-14 *      |
| New York          | NELAP         | 2          | 10975            | 03-31-15        |
| Ohio VAP          | State Program | 5          | CL0024           | 10-31-15        |
| Pennsylvania      | NELAP         | 3          | 68-00340         | 08-31-14        |
| Texas             | NELAP         | 6          |                  | 08-31-14        |
| USDA              | Federal       |            | P330-13-00319    | 11-26-16        |
| Virginia          | NELAP         | 3          | 460175           | 09-14-14        |
| Washington        | State Program | 10         | C971             | 01-12-15        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-14        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-14        |

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

TestAmerica Canton

**CHAIN OF CUSTODY  
AND  
RECEIVING DOCUMENTS**



240-36748 Chain of Custody

## Chain of Custody Record

|                                                        |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
|--------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Client Information</b>                              |         | Sampler: EH/SS                                                                                                                                                                                                                    | Lab Pmt: Brooks, Kris M - (330) 966-9790 | Carrier Tracking No(s):                                                                                                                                                                                                                | COC No: 240-9122-3944.1                                         |
| Client Contact:                                        |         | Phone: 937-726-9987                                                                                                                                                                                                               | E-Mail: kris.brooks@testamericainc.com   | Page: Page 1 of 1                                                                                                                                                                                                                      |                                                                 |
| Company:                                               |         | Job #:                                                                                                                                                                                                                            |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Golder Associates Inc.                                 |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Address: 1335 Dublin Rd. STE 126-3                     |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| City: Columbus                                         |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| State, Zip: OH, 43215                                  |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Phone: (614) 486-1700                                  |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Email: bob.ireson@golder.com                           |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Project Name: Industrial SWPPP                         |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Site: Satralloy                                        |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Due Date Requested:                                    |         | Analysis Requested                                                                                                                                                                                                                |                                          |                                                                                                                                                                                                                                        |                                                                 |
| TAT Requested (days):                                  |         | Normal                                                                                                                                                                                                                            |                                          |                                                                                                                                                                                                                                        |                                                                 |
| PO #:                                                  |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Purchase Order not required                            |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| WO #:                                                  |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Project #:                                             |         | 1239330901.300                                                                                                                                                                                                                    |                                          |                                                                                                                                                                                                                                        |                                                                 |
| SSOW#:                                                 |         |                                                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Sample Identification                                  |         | Sample Date                                                                                                                                                                                                                       | Sample Time                              | Sample Type (C=Comp, G=grab)                                                                                                                                                                                                           | Matrix (W=water, S=solid, O=wastewater, ST=Soil, Tissue, A=Air) |
| FD                                                     | 4/30/14 | 1330                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| GC-1                                                   | 4/30/14 | 1235                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| GC-2                                                   | 4/30/14 | 1245                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| GC-4                                                   | 4/30/14 | 1325                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| GC-5                                                   | 4/30/14 | 1330                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| GC-6                                                   | 4/30/14 | 1342                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| GC-9                                                   | 4/30/14 | 1349                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| Upstream                                               | 4/30/14 | 1218                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| Downstream                                             | 4/30/14 | 1314                                                                                                                                                                                                                              | G                                        | W                                                                                                                                                                                                                                      |                                                                 |
| Possible Hazard Identification                         |         | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological |                                          | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                                                 |
| Deliverable Requested: I, II, III, IV, Other (specify) |         | Special Instructions/QC Requirements: Short Hold Time!                                                                                                                                                                            |                                          |                                                                                                                                                                                                                                        |                                                                 |
| Empty Kit Relinquished by:                             |         | Date:                                                                                                                                                                                                                             |                                          | Time:                                                                                                                                                                                                                                  |                                                                 |
| Relinquished by: Eric Hooping - E.H.                   |         | Date: 4/30/14                                                                                                                                                                                                                     |                                          | Time: 1700                                                                                                                                                                                                                             |                                                                 |
| Relinquished by:                                       |         | Date:                                                                                                                                                                                                                             |                                          | Time:                                                                                                                                                                                                                                  |                                                                 |
| Relinquished by:                                       |         | Date:                                                                                                                                                                                                                             |                                          | Time:                                                                                                                                                                                                                                  |                                                                 |
| Custody Seal No.:                                      |         | Custody Seal No.:                                                                                                                                                                                                                 |                                          | Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                                            |                                                                 |
| △ Yes △ No                                             |         | △ Yes △ No                                                                                                                                                                                                                        |                                          |                                                                                                                                                                                                                                        |                                                                 |

## TestAmerica Canton Sample Receipt Form/Narrative

Login #: 30748

Canton Facility

Client Colder Associates

Site Name

Cooler unpacked by:

Cooler Received on 5/1/14Opened on 5/1/14Russ RossFedEx: 1<sup>st</sup> Grd ☒ Exp ☐ UPS ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ OtherTestAmerica Cooler # B-88 Foam Box ☐ Client Cooler ☐ Box ☐ OtherPacking material used: Bubble Wrap Foam ☐ Plastic Bag ☐ None ☐ OtherCOOLANT: Wet Ice Blue Ice ☐ Dry Ice ☐ Water ☐ None

## 1. Cooler temperature upon receipt

IR GUN# A (CF +0 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp. 2.0 °C

IR GUN# 4 (CF -1 °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 +1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °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 ☐ 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 &amp; 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

## 11. Were VOAs on the COC?

☒ Yes ☐ No

## 12. Were air bubbles &gt;6 mm in any VOA vials?

☒ Yes ☐ No NA

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

☒ Yes ☐ NopH Strip Lot# HC391902Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other  
Concerning \_\_\_\_\_

## 14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES

Samples processed by:

Russ Ross

## 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 &gt;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): \_\_\_\_\_