TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 240-27803-1
Client Project/Site: Satralloy - Pile Sampling - 12393309.300

For:
Golder Associates Inc.
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Attn: Mr. Bob Ireson

Authorized for release by:
8/30/2013 3:11:52 PM

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Method Summary 9
Sample Summary 10
Detection Summary 11
Client Sample Results 16
Surrogate Summary 49
QC Sample Results 51
QC Association Summary 76
Lab Chronicle 84
Certification Summary 89

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)
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)

Job ID: 240-27803-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Golder Associates Inc.

Project: Satralloy - Pile Sampling - 12393309.300

Report Number: 240-27803-1

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 08/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 5.0, 19.8, 22.0 and 22.4 C.

INCREMENTAL SAMPLING METHOD (ISM)

Samples SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3) and SP-07-ISM-03 (240-27803-4) were processed by incremental methodology prior to prep and analyses. Per client instructions, samples were dried, disaggregated, and sieved using a #10, 2mm sieve. Material that did not pass through the sieve was then milled using a jaw-style crusher. After milling, material was again sieved using a #10, 2mm sieve. All material of less than 2mm in size was subsampled using a 2D-slabcake technique. Material of greater than 2mm in size, that material which did not pass through the sieve, was retained for archiving.

During the air drying step, a mistake was made and this sample was left out to dry for longer than necessary, and longer than the recommended maximum of five days: SP-07-ISM-03 (240-27803-4). The drying for this sample lasted from 8/9/13 to 8/19/13 -- ten days.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS) WITH INCREMENTAL SAMPLE PREPARATION

Samples SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3) and SP-07-ISM-03 (240-27803-4) were analyzed for semivolatile organic compounds (GCMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8270C. The samples began the drying process on 08/09/2013, were prepared on 08/21/2013 and

Job ID: 240-27803-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

analyzed on 08/23/2013.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10) and SP-13-GR-01 (240-27803-12) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/17/2013 and analyzed on 08/20/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate were detected in method blank MB 240-97891/23-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria high for SP-14-COM-01 (240-27803-10). 2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria low for SP-08-GR-01 (240-27803-5). 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for 240-27896-A-1-L MS. Terphenyl-d14 (Surr) failed the surrogate recovery criteria high. 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for 240-27896-A-1-M MSD. Terphenyl-d14 (Surr) failed the surrogate recovery criteria high. Refer to the QC report for details.

Benzaldehyde failed the recovery criteria low for LCS 240-97891/24-A. Benzaldehyde failed the recovery criteria low for LCS 240-97893/19-A. Refer to the QC report for details. Refer to the QC report for details.

The laboratory control sample (LCS) for prep batch 97429, associated with samples SP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10), had a recovery for benzaldehyde below acceptance criteria. This compound is not a control analyte; therefore, no corrective action was required. The data have been flagged accordingly.

The laboratory control sample (LCS) for prep batch 97893, associated with sample SP-13-GR-01 (240-27803-12), had a recovery for benzaldehyde below acceptance criteria. This compound is not a control analyte; therefore, no corrective action was required. The data have been flagged accordingly.

The laboratory control sample (LCS) for prep batch 97891, associated with samplesSP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10), had a recovery for benzaldehyde below acceptance criteria. This compound is not a control analyte; therefore, no corrective action was required. The data have been flagged accordingly.

Samples SP-08-GR-01 (240-27803-5)[4X] and SP-14-COM-01 (240-27803-10)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample SP-EB-ISM-02 (240-27803-1) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/14/2013 and analyzed on 08/16/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

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

POLYCHLORINATED BIPHENYLS (PCBS) WITH INCREMENTAL SAMPLE PREPARATION

Job ID: 240-27803-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3) and SP-07-ISM-03 (240-27803-4) were analyzed for polychlorinated biphenyls (PCBs) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8082. The samples began the drying process on 08/09/2013, were prepared on 08/21/2013 and analyzed on 08/23/2013.

The following sample(s) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3), SP-07-ISM-03 (240-27803-4). Lot # S65830

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

POLYCHLORINATED BIPHENYLS (PCBS)

Samples SP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10) and SP-13-GR-01 (240-27803-12) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 08/16/2013 and analyzed on 08/20/2013 and 08/21/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Sample SP-14-COM-01 (240-27803-10)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample(s) was diluted due to the nature of the sample matrix: SP-14-COM-01 (240-27803-10). Elevated reporting limits (RLs) are provided.

The following sample(s) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SP-08-GR-01 (240-27803-5), SP-14-COM-01 (240-27803-10). Lot # S65830

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

TCLP METALS (ICP) WITH INCREMENTAL SAMPLE PREPARATION

Samples SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3) and SP-07-ISM-03 (240-27803-4) were analyzed for metals (ICP) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 6010B. The samples were leached on 08/09/2013, prepared on 08/22/2013 and analyzed on 08/23/2013.

Barium was detected in method blank LB 240-98435/1-D at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

TCLP METALS (ICP)

Samples SP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10) and SP-13-GR-01 (240-27803-12) were analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010B. The samples were leached on 08/14/2013 and 08/19/2013, prepared on 08/15/2013 and 08/20/2013 and analyzed on 08/16/2013 and 08/21/2013.

Barium and Selenium were detected in method blank LB 240-97470/1-D at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Barium and Selenium were detected in method blank LB 240-97474/1-C at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Barium and Selenium were detected in method blank LB 240-98069/1-D at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Job ID: 240-27803-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Barium was detected in method blank MB 240-98147/2-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

DISSOLVED METALS (ICP)
Sample SP-IDW-GR-01 (240-27803-11) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 08/15/2013 and analyzed on 08/16/2013.

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

TOTAL RECOVERABLE METALS (ICP)
Samples SP-EB-ISM-02 (240-27803-1) and SP-IDW-GR-01 (240-27803-11) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 08/14/2013 and analyzed on 08/15/2013.

Zinc was detected in method blank MB 240-97357/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Barium, Manganese and Vanadium were detected in method blank MB 240-97357/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Manganese and Zinc were detected in method blank MB 240-97527/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

TCLP MERCURY WITH INCREMENTAL SAMPLE PREPARATION
Samples SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3) and SP-07-ISM-03 (240-27803-4) were analyzed for mercury with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 7470A. The samples were leached on 08/09/2013, prepared on 08/22/2013 and analyzed on 08/23/2013.

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

TCLP MERCURY
Samples SP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10) and SP-13-GR-01 (240-27803-12) were analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 08/14/2013 and 08/19/2013, prepared on 08/15/2013 and 08/20/2013 and analyzed on 08/19/2013 and 08/21/2013.

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

TOTAL MERCURY
Samples SP-EB-ISM-02 (240-27803-1) and SP-IDW-GR-01 (240-27803-11) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/14/2013.

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

TOTAL DISSOLVED SOLIDS
Sample SP-IDW-GR-01 (240-27803-11) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 08/14/2013.

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

TOTAL SUSPENDED SOLIDS
Sample SP-IDW-GR-01 (240-27803-11) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 08/15/2013.

Job ID: 240-27803-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

PERCENT SOLIDS

Samples SP-07-ISM-01 (240-27803-2), SP-07-ISM-02 (240-27803-3), SP-07-ISM-03 (240-27803-4), SP-08-GR-01 (240-27803-5), SP-09-GR-01 (240-27803-6), SP-10-GR-01 (240-27803-7), SP-11-GR-01 (240-27803-8), SP-12-GR-01 (240-27803-9), SP-14-COM-01 (240-27803-10) and SP-13-GR-01 (240-27803-12) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/21/2013.

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

Method Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-27803-1	SP-EB-ISM-02	Water	08/07/13 16:50	08/09/13 08:15
240-27803-2	SP-07-ISM-01	Solid	08/07/13 15:31	08/09/13 08:15
240-27803-3	SP-07-ISM-02	Solid	08/07/13 16:30	08/09/13 08:15
240-27803-4	SP-07-ISM-03	Solid	08/07/13 14:40	08/09/13 08:15
240-27803-5	SP-08-GR-01	Solid	08/08/13 09:40	08/09/13 08:15
240-27803-6	SP-09-GR-01	Solid	08/08/13 09:55	08/09/13 08:15
240-27803-7	SP-10-GR-01	Solid	08/08/13 10:23	08/09/13 08:15
240-27803-8	SP-11-GR-01	Solid	08/08/13 10:35	08/09/13 08:15
240-27803-9	SP-12-GR-01	Solid	08/08/13 10:56	08/09/13 08:15
240-27803-10	SP-14-COM-01	Solid	08/08/13 12:46	08/09/13 08:15
240-27803-11	SP-IDW-GR-01	Water	08/08/13 14:05	08/09/13 08:15
240-27803-12	SP-13-GR-01	Solid	08/08/13 11:25	08/09/13 08:15

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-EB-ISM-02 — Lab Sample ID: 240-27803-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetophenone	0.36	J	0.95	0.32	ug/L	1		8270C	Total/NA
Benzaldehyde	0.57	J	0.95	0.37	ug/L	1		8270C	Total/NA
Bis(2-ethylhexyl) phthalate	0.38	J	1.9	0.21	ug/L	1		8270C	Total/NA

Client Sample ID: SP-07-ISM-01 — Lab Sample ID: 240-27803-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	5.9	J	49	3.4	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	23		6.5	0.49	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	7.0		6.5	0.74	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	4.4	J	6.5	0.34	ug/Kg	1	☼	8270C	Total/NA
Acetophenone	15	J	97	8.9	ug/Kg	1	☼	8270C	Total/NA
Anthracene	18		6.5	0.76	ug/Kg	1	☼	8270C	Total/NA
Benzaldehyde	12	J	97	12	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	160		6.5	0.61	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	200		6.5	0.62	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	320		6.5	0.57	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	170		6.5	0.34	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	150		6.5	0.66	ug/Kg	1	☼	8270C	Total/NA
Chrysene	220		6.5	1.1	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	22	J	49	0.64	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	49	J	68	15	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	230		6.5	0.53	ug/Kg	1	☼	8270C	Total/NA
Fluorene	8.3		6.5	0.51	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	140		6.5	0.34	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	25		6.5	0.80	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	140		6.5	0.71	ug/Kg	1	☼	8270C	Total/NA
Pyrene	190		6.5	0.43	ug/Kg	1	☼	8270C	Total/NA
Arsenic	0.0094	J	0.50	0.0032	mg/L	1		6010B	Total/NA
Barium	0.31	J B	10	0.00067	mg/L	1		6010B	Total/NA
Cadmium	0.00098	J	0.10	0.00066	mg/L	1		6010B	Total/NA
Chromium	0.033	J	0.50	0.0022	mg/L	1		6010B	Total/NA
Selenium	0.0067	J	0.25	0.0041	mg/L	1		6010B	Total/NA

Client Sample ID: SP-07-ISM-02 — Lab Sample ID: 240-27803-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	6.4	J	48	3.3	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	23		6.3	0.48	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	16		6.3	0.72	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	5.5	J	6.3	0.33	ug/Kg	1	☼	8270C	Total/NA
Acetophenone	10	J	95	8.7	ug/Kg	1	☼	8270C	Total/NA
Anthracene	42		6.3	0.74	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	290		6.3	0.60	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	390		6.3	0.61	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	600		6.3	0.56	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	340		6.3	0.33	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	230		6.3	0.65	ug/Kg	1	☼	8270C	Total/NA
Carbazole	33	J	48	26	ug/Kg	1	☼	8270C	Total/NA
Chrysene	400		6.3	1.0	ug/Kg	1	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-07-ISM-02 (Continued) — Lab Sample ID: 240-27803-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	25	J	48	0.63	ug/Kg	1	☼	8270C	Total/NA
Diethyl phthalate	19	J	67	15	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	35	J	67	14	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	420		6.3	0.52	ug/Kg	1	☼	8270C	Total/NA
Fluorene	18		6.3	0.50	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	280		6.3	0.33	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	38		6.3	0.78	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	250		6.3	0.69	ug/Kg	1	☼	8270C	Total/NA
Pyrene	360		6.3	0.42	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1260	20	J	33	17	ug/Kg	1	☼	8082	Total/NA
Polychlorinated biphenyls, Total	20	J	33	13	ug/Kg	1	☼	8082	Total/NA
Arsenic	0.0063	J	0.50	0.0032	mg/L	1		6010B	Total/NA
Barium	0.30	J B	10	0.00067	mg/L	1		6010B	Total/NA
Cadmium	0.00080	J	0.10	0.00066	mg/L	1		6010B	Total/NA
Chromium	0.012	J	0.50	0.0022	mg/L	1		6010B	Total/NA
Selenium	0.0092	J	0.25	0.0041	mg/L	1		6010B	Total/NA

Client Sample ID: SP-07-ISM-03 — Lab Sample ID: 240-27803-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	6.5	J	51	3.6	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	29		6.8	0.51	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	13		6.8	0.78	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	5.0	J	6.8	0.36	ug/Kg	1	☼	8270C	Total/NA
Acetophenone	24	J	100	9.4	ug/Kg	1	☼	8270C	Total/NA
Anthracene	30		6.8	0.80	ug/Kg	1	☼	8270C	Total/NA
Benzaldehyde	19	J	100	12	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	270		6.8	0.65	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	370		6.8	0.66	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	530		6.8	0.60	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	290		6.8	0.36	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	210		6.8	0.70	ug/Kg	1	☼	8270C	Total/NA
Chrysene	350		6.8	1.1	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	23	J	51	0.68	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	22	J	72	15	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	360		6.8	0.56	ug/Kg	1	☼	8270C	Total/NA
Fluorene	12		6.8	0.54	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	250		6.8	0.36	ug/Kg	1	☼	8270C	Total/NA
Isophorone	16	J	51	13	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	32		6.8	0.84	ug/Kg	1	☼	8270C	Total/NA
Phenol	9.1	J	51	7.5	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	190		6.8	0.75	ug/Kg	1	☼	8270C	Total/NA
Pyrene	320		6.8	0.45	ug/Kg	1	☼	8270C	Total/NA
Arsenic	0.0093	J	0.50	0.0032	mg/L	1		6010B	Total/NA
Barium	0.34	J B	10	0.00067	mg/L	1		6010B	Total/NA
Chromium	0.019	J	0.50	0.0022	mg/L	1		6010B	Total/NA
Selenium	0.0061	J	0.25	0.0041	mg/L	1		6010B	Total/NA

Client Sample ID: SP-08-GR-01 — Lab Sample ID: 240-27803-5

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-08-GR-01 (Continued) — Lab Sample ID: 240-27803-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0040	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.78	J B	10	0.00067	mg/L	1		6010B	TCLP
Selenium	0.011	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Client Sample ID: SP-09-GR-01 — Lab Sample ID: 240-27803-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	120		41	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	190		41	3.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	69		41	4.2	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	130		41	2.2	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	120		41	3.9	ug/Kg	1	☼	8270C	Total/NA
Bis(2-ethylhexyl) phthalate	230	J B	430	120	ug/Kg	1	☼	8270C	Total/NA
Chrysene	130		41	6.8	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	160	J B	430	93	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	180		41	3.4	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	100		41	2.2	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	93		41	4.5	ug/Kg	1	☼	8270C	Total/NA
Pyrene	140		41	2.7	ug/Kg	1	☼	8270C	Total/NA
Arsenic	0.0032	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.055	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.039	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.038	J	0.50	0.0019	mg/L	1		6010B	TCLP

Client Sample ID: SP-10-GR-01 — Lab Sample ID: 240-27803-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	36	J	40	3.5	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	31	J	40	2.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	20	J	40	3.8	ug/Kg	1	☼	8270C	Total/NA
Bis(2-ethylhexyl) phthalate	290	J B	420	110	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	170	J B	420	90	ug/Kg	1	☼	8270C	Total/NA
Arsenic	0.014	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.11	J B	10	0.00067	mg/L	1		6010B	TCLP
Chromium	0.28	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.0060	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0044	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Client Sample ID: SP-11-GR-01 — Lab Sample ID: 240-27803-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	320	J B	430	120	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	190	J B	430	92	ug/Kg	1	☼	8270C	Total/NA
Barium	0.047	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.0013	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.011	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.013	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0048	J B	0.25	0.0041	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-12-GR-01 — Lab Sample ID: 240-27803-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	320	J B	440	120	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	170	J B	440	93	ug/Kg	1	☼	8270C	Total/NA
Arsenic	0.0069	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.33	J B	10	0.00067	mg/L	1		6010B	TCLP
Chromium	0.0067	J	0.50	0.0022	mg/L	1		6010B	TCLP
Selenium	0.0059	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Client Sample ID: SP-14-COM-01 — Lab Sample ID: 240-27803-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetophenone	92000		12000	1100	ug/Kg	20	☼	8270C	Total/NA
Benzaldehyde	12000	*	12000	1500	ug/Kg	20	☼	8270C	Total/NA
1,1'-Biphenyl	790	J	6100	430	ug/Kg	20	☼	8270C	Total/NA
3 & 4 Methylphenol	11000	J	49000	2400	ug/Kg	20	☼	8270C	Total/NA
2,4-Dimethylphenol	2400	J	18000	2400	ug/Kg	20	☼	8270C	Total/NA
Dimethyl phthalate	110000		8500	2100	ug/Kg	20	☼	8270C	Total/NA
Di-n-butyl phthalate	120000	B	8500	1800	ug/Kg	20	☼	8270C	Total/NA
Naphthalene	520	J	810	100	ug/Kg	20	☼	8270C	Total/NA
Phenol	33000		6100	890	ug/Kg	20	☼	8270C	Total/NA
Arsenic	0.012	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.087	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.0016	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.025	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.013	J	0.50	0.0019	mg/L	1		6010B	TCLP

Client Sample ID: SP-IDW-GR-01 — Lab Sample ID: 240-27803-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	8.8		5.0	2.2	ug/L	1		6010B	Total Recoverable
Aluminum	8200		200	97	ug/L	1		6010B	Total Recoverable
Arsenic	12		10	3.2	ug/L	1		6010B	Total Recoverable
Cadmium	12		2.0	0.66	ug/L	1		6010B	Total Recoverable
Cobalt	40		7.0	1.7	ug/L	1		6010B	Total Recoverable
Chromium	740		5.0	2.2	ug/L	1		6010B	Total Recoverable
Copper	310		25	4.5	ug/L	1		6010B	Total Recoverable
Iron	15000		100	81	ug/L	1		6010B	Total Recoverable
Manganese	940	B	15	0.41	ug/L	1		6010B	Total Recoverable
Nickel	59		40	3.2	ug/L	1		6010B	Total Recoverable
Lead	250		3.0	1.9	ug/L	1		6010B	Total Recoverable
Antimony	130		10	1.8	ug/L	1		6010B	Total Recoverable
Titanium	290		50	5.3	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-IDW-GR-01 (Continued) — Lab Sample ID: 240-27803-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	15	B	7.0	0.64	ug/L	1		6010B	Total Recoverable
Zinc	1200	B	50	5.0	ug/L	1		6010B	Total Recoverable
Aluminum	570		200	97	ug/L	1		6010B	Dissolved
Arsenic	10		10	3.2	ug/L	1		6010B	Dissolved
Cadmium	11		2.0	0.66	ug/L	1		6010B	Dissolved
Cobalt	17		7.0	1.7	ug/L	1		6010B	Dissolved
Chromium	46		5.0	2.2	ug/L	1		6010B	Dissolved
Copper	210		25	4.5	ug/L	1		6010B	Dissolved
Iron	9500		100	81	ug/L	1		6010B	Dissolved
Manganese	470	B	15	0.41	ug/L	1		6010B	Dissolved
Nickel	15	J	40	3.2	ug/L	1		6010B	Dissolved
Lead	210		3.0	1.9	ug/L	1		6010B	Dissolved
Antimony	58		10	1.8	ug/L	1		6010B	Dissolved
Titanium	29	J	50	5.3	ug/L	1		6010B	Dissolved
Vanadium	2.9	J	7.0	0.64	ug/L	1		6010B	Dissolved
Zinc	720	B	50	5.0	ug/L	1		6010B	Dissolved
Mercury	0.13	J	0.20	0.12	ug/L	1		7470A	Total/NA
Total Dissolved Solids	3700		40	40	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	140		4.0	4.0	mg/L	1		SM 2540D	Total/NA

Client Sample ID: SP-13-GR-01 — Lab Sample ID: 240-27803-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	38	J	40	4.6	ug/Kg	1	☼	8270C	Total/NA
Anthracene	81		40	4.7	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	290		40	3.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	530		40	3.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	150		40	4.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	160		40	2.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	280		40	3.9	ug/Kg	1	☼	8270C	Total/NA
Bis(2-ethylhexyl) phthalate	230	J	420	110	ug/Kg	1	☼	8270C	Total/NA
Chrysene	420		40	6.6	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	55		40	4.0	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	580		40	3.3	ug/Kg	1	☼	8270C	Total/NA
Fluorene	24	J	40	3.2	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	150		40	2.1	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	350		40	4.4	ug/Kg	1	☼	8270C	Total/NA
Pyrene	500		40	2.7	ug/Kg	1	☼	8270C	Total/NA
Arsenic	0.0036	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.15	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	1.1		0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.016	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0066	J B	0.25	0.0041	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-EB-ISM-02

Lab Sample ID: 240-27803-1

Date Collected: 08/07/13 16:50

Matrix: Water

Date Received: 08/09/13 08:15

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.12		0.95	0.12	ug/L		08/14/13 10:41	08/16/13 10:22	1
bis (2-chloroisopropyl) ether	<0.38		0.95	0.38	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,4,5-Trichlorophenol	<0.29		4.8	0.29	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,4,6-Trichlorophenol	<0.23		4.8	0.23	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,4-Dichlorophenol	<0.18		1.9	0.18	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,4-Dimethylphenol	<0.24		1.9	0.24	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,4-Dinitrophenol	<0.30		4.8	0.30	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,4-Dinitrotoluene	<0.24		4.8	0.24	ug/L		08/14/13 10:41	08/16/13 10:22	1
2,6-Dinitrotoluene	<0.76		4.8	0.76	ug/L		08/14/13 10:41	08/16/13 10:22	1
2-Chloronaphthalene	<0.095		0.95	0.095	ug/L		08/14/13 10:41	08/16/13 10:22	1
2-Chlorophenol	<0.28		0.95	0.28	ug/L		08/14/13 10:41	08/16/13 10:22	1
2-Methylnaphthalene	<0.086		0.19	0.086	ug/L		08/14/13 10:41	08/16/13 10:22	1
2-Methylphenol	<0.16		0.95	0.16	ug/L		08/14/13 10:41	08/16/13 10:22	1
2-Nitroaniline	<0.20		1.9	0.20	ug/L		08/14/13 10:41	08/16/13 10:22	1
2-Nitrophenol	<0.27		1.9	0.27	ug/L		08/14/13 10:41	08/16/13 10:22	1
3,3'-Dichlorobenzidine	<0.35		4.8	0.35	ug/L		08/14/13 10:41	08/16/13 10:22	1
3-Nitroaniline	<0.27		1.9	0.27	ug/L		08/14/13 10:41	08/16/13 10:22	1
4,6-Dinitro-2-methylphenol	<2.3		4.8	2.3	ug/L		08/14/13 10:41	08/16/13 10:22	1
4-Bromophenyl phenyl ether	<0.21		1.9	0.21	ug/L		08/14/13 10:41	08/16/13 10:22	1
4-Chloro-3-methylphenol	<0.20		1.9	0.20	ug/L		08/14/13 10:41	08/16/13 10:22	1
4-Chloroaniline	<0.20		1.9	0.20	ug/L		08/14/13 10:41	08/16/13 10:22	1
4-Chlorophenyl phenyl ether	<0.29		1.9	0.29	ug/L		08/14/13 10:41	08/16/13 10:22	1
4-Nitroaniline	<0.21		1.9	0.21	ug/L		08/14/13 10:41	08/16/13 10:22	1
4-Nitrophenol	<0.28		4.8	0.28	ug/L		08/14/13 10:41	08/16/13 10:22	1
Acenaphthene	<0.042		0.19	0.042	ug/L		08/14/13 10:41	08/16/13 10:22	1
Acenaphthylene	<0.046		0.19	0.046	ug/L		08/14/13 10:41	08/16/13 10:22	1
Acetophenone	**0.36**	**J**	0.95	0.32	ug/L		08/14/13 10:41	08/16/13 10:22	1
Anthracene	<0.084		0.19	0.084	ug/L		08/14/13 10:41	08/16/13 10:22	1
Atrazine	<0.32		0.95	0.32	ug/L		08/14/13 10:41	08/16/13 10:22	1
Benzaldehyde	**0.57**	**J**	0.95	0.37	ug/L		08/14/13 10:41	08/16/13 10:22	1
Benzo[a]anthracene	<0.028		0.19	0.028	ug/L		08/14/13 10:41	08/16/13 10:22	1
Benzo[a]pyrene	<0.049		0.19	0.049	ug/L		08/14/13 10:41	08/16/13 10:22	1
Benzo[b]fluoranthene	<0.038		0.19	0.038	ug/L		08/14/13 10:41	08/16/13 10:22	1
Benzo[g,h,i]perylene	<0.044		0.19	0.044	ug/L		08/14/13 10:41	08/16/13 10:22	1
Benzo[k]fluoranthene	<0.043		0.19	0.043	ug/L		08/14/13 10:41	08/16/13 10:22	1
Bis(2-chloroethoxy)methane	<0.30		0.95	0.30	ug/L		08/14/13 10:41	08/16/13 10:22	1
Bis(2-chloroethyl)ether	<0.095		0.95	0.095	ug/L		08/14/13 10:41	08/16/13 10:22	1
Bis(2-ethylhexyl) phthalate	**0.38**	**J**	1.9	0.21	ug/L		08/14/13 10:41	08/16/13 10:22	1
Butyl benzyl phthalate	<0.25		1.9	0.25	ug/L		08/14/13 10:41	08/16/13 10:22	1
Caprolactam	<0.19		4.8	0.19	ug/L		08/14/13 10:41	08/16/13 10:22	1
Carbazole	<0.27		0.95	0.27	ug/L		08/14/13 10:41	08/16/13 10:22	1
Chrysene	<0.048		0.19	0.048	ug/L		08/14/13 10:41	08/16/13 10:22	1
Dibenz(a,h)anthracene	<0.042		0.19	0.042	ug/L		08/14/13 10:41	08/16/13 10:22	1
Dibenzofuran	<0.019		0.95	0.019	ug/L		08/14/13 10:41	08/16/13 10:22	1
Diethyl phthalate	<0.57		1.9	0.57	ug/L		08/14/13 10:41	08/16/13 10:22	1
Dimethyl phthalate	<0.28		1.9	0.28	ug/L		08/14/13 10:41	08/16/13 10:22	1
Di-n-butyl phthalate	<0.64		1.9	0.64	ug/L		08/14/13 10:41	08/16/13 10:22	1
Di-n-octyl phthalate	<0.22		1.9	0.22	ug/L		08/14/13 10:41	08/16/13 10:22	1
Fluoranthene	<0.042		0.19	0.042	ug/L		08/14/13 10:41	08/16/13 10:22	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-EB-ISM-02

Lab Sample ID: 240-27803-1

Date Collected: 08/07/13 16:50
Matrix: Water
Date Received: 08/09/13 08:15

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.039		0.19	0.039	ug/L		08/14/13 10:41	08/16/13 10:22	1
Hexachlorobenzene	<0.081		0.19	0.081	ug/L		08/14/13 10:41	08/16/13 10:22	1
Hexachlorobutadiene	<0.26		0.95	0.26	ug/L		08/14/13 10:41	08/16/13 10:22	1
Hexachlorocyclopentadiene	<0.23		9.5	0.23	ug/L		08/14/13 10:41	08/16/13 10:22	1
Hexachloroethane	<0.18		0.95	0.18	ug/L		08/14/13 10:41	08/16/13 10:22	1
Indeno[1,2,3-cd]pyrene	<0.041		0.19	0.041	ug/L		08/14/13 10:41	08/16/13 10:22	1
Isophorone	<0.26		0.95	0.26	ug/L		08/14/13 10:41	08/16/13 10:22	1
Naphthalene	<0.060		0.19	0.060	ug/L		08/14/13 10:41	08/16/13 10:22	1
Nitrobenzene	<0.038		0.95	0.038	ug/L		08/14/13 10:41	08/16/13 10:22	1
N-Nitrosodi-n-propylamine	<0.23		0.95	0.23	ug/L		08/14/13 10:41	08/16/13 10:22	1
Pentachlorophenol	<0.26		4.8	0.26	ug/L		08/14/13 10:41	08/16/13 10:22	1
Phenol	<0.57		0.95	0.57	ug/L		08/14/13 10:41	08/16/13 10:22	1
Phenanthrene	<0.059		0.19	0.059	ug/L		08/14/13 10:41	08/16/13 10:22	1
Pyrene	<0.040		0.19	0.040	ug/L		08/14/13 10:41	08/16/13 10:22	1
3 & 4 Methylphenol	<0.76		1.9	0.76	ug/L		08/14/13 10:41	08/16/13 10:22	1
Pyridine	<0.33		0.95	0.33	ug/L		08/14/13 10:41	08/16/13 10:22	1
1,4-Dichlorobenzene	<0.32		0.95	0.32	ug/L		08/14/13 10:41	08/16/13 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*20 - 110*	*08/14/13 10:41*	*08/16/13 10:22*	*1*
2-Fluorophenol (Surr)	*58*		*10 - 110*	*08/14/13 10:41*	*08/16/13 10:22*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*21 - 110*	*08/14/13 10:41*	*08/16/13 10:22*	*1*
Nitrobenzene-d5 (Surr)	*57*		*21 - 110*	*08/14/13 10:41*	*08/16/13 10:22*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*08/14/13 10:41*	*08/16/13 10:22*	*1*
Terphenyl-d14 (Surr)	*74*		*24 - 110*	*08/14/13 10:41*	*08/16/13 10:22*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.67		200	0.67	ug/L		08/14/13 08:01	08/15/13 12:14	1
Cadmium	<0.66		2.0	0.66	ug/L		08/14/13 08:01	08/15/13 12:14	1
Chromium	<2.2		5.0	2.2	ug/L		08/14/13 08:01	08/15/13 12:14	1
Silver	<2.2		5.0	2.2	ug/L		08/14/13 08:01	08/15/13 12:14	1
Arsenic	<3.2		10	3.2	ug/L		08/14/13 08:01	08/15/13 12:14	1
Lead	<1.9		3.0	1.9	ug/L		08/14/13 08:01	08/15/13 12:14	1
Selenium	<4.1		5.0	4.1	ug/L		08/14/13 08:01	08/15/13 12:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.12		0.20	0.12	ug/L		08/14/13 09:00	08/14/13 12:27	1

Client Sample ID: SP-07-ISM-01

Date Collected: 08/07/13 15:31
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-2

Matrix: Solid
Percent Solids: 98.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**5.9**	**J**	49	3.4	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
bis (2-chloroisopropyl) ether	<9.2		97	9.2	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,4,5-Trichlorophenol	<24		150	24	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,4,6-Trichlorophenol	<8.6		150	8.6	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,4-Dichlorophenol	<19		150	19	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,4-Dimethylphenol	<19		150	19	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,4-Dinitrophenol	<20		320	20	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,4-Dinitrotoluene	<17		190	17	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2,6-Dinitrotoluene	<20		190	20	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2-Chloronaphthalene	<0.44		49	0.44	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2-Chlorophenol	<8.0		49	8.0	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2-Methylnaphthalene	**23**		6.5	0.49	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2-Methylphenol	<11		190	11	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2-Nitroaniline	<8.8		190	8.8	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
2-Nitrophenol	<8.1		49	8.1	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
3,3'-Dichlorobenzidine	<17		97	17	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
3-Nitroaniline	<16		190	16	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4,6-Dinitro-2-methylphenol	<8.9		150	8.9	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4-Bromophenyl phenyl ether	<13		49	13	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4-Chloro-3-methylphenol	<20		150	20	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4-Chloroaniline	<17		150	17	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4-Chlorophenyl phenyl ether	<13		49	13	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4-Nitroaniline	<25		190	25	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
4-Nitrophenol	<17		320	17	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Acenaphthene	**7.0**		6.5	0.74	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Acenaphthylene	**4.4**	**J**	6.5	0.34	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Acetophenone	**15**	**J**	97	8.9	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Anthracene	**18**		6.5	0.76	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Atrazine	<8.8		190	8.8	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Benzaldehyde	**12**	**J**	97	12	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Benzo[a]anthracene	**160**		6.5	0.61	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Benzo[a]pyrene	**200**		6.5	0.62	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Benzo[b]fluoranthene	**320**		6.5	0.57	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Benzo[g,h,i]perylene	**170**		6.5	0.34	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Benzo[k]fluoranthene	**150**		6.5	0.66	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Bis(2-chloroethoxy)methane	<21		97	21	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Bis(2-chloroethyl)ether	<1.9		97	1.9	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Bis(2-ethylhexyl) phthalate	<18		68	18	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Butyl benzyl phthalate	<9.7		68	9.7	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Caprolactam	<36		320	36	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Carbazole	<26		49	26	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Chrysene	**220**		6.5	1.1	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Dibenz(a,h)anthracene	<0.64		6.5	0.64	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Dibenzofuran	**22**	**J**	49	0.64	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Diethyl phthalate	<16		68	16	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Dimethyl phthalate	<17		68	17	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Di-n-butyl phthalate	**49**	**J**	68	15	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Di-n-octyl phthalate	<7.7		68	7.7	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Fluoranthene	**230**		6.5	0.53	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-01

Date Collected: 08/07/13 15:31
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-2

Matrix: Solid
Percent Solids: 98.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**8.3**		6.5	0.51	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Hexachlorobenzene	<2.0		6.5	2.0	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Hexachlorobutadiene	<5.4		49	5.4	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Hexachlorocyclopentadiene	<7.9		320	7.9	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Hexachloroethane	<8.7		49	8.7	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Indeno[1,2,3-cd]pyrene	**140**		6.5	0.34	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Isophorone	<13		49	13	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Naphthalene	**25**		6.5	0.80	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Nitrobenzene	<2.1		97	2.1	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
N-Nitrosodi-n-propylamine	<6.1		49	6.1	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Pentachlorophenol	<8.8		150	8.8	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Phenol	<7.1		49	7.1	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Phenanthrene	**140**		6.5	0.71	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Pyrene	**190**		6.5	0.43	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
3 & 4 Methylphenol	<19		390	19	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
Pyridine	<3.4		97	3.4	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1
1,4-Dichlorobenzene	<19		49	19	ug/Kg	☼	08/21/13 10:33	08/23/13 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*24 - 110*	*08/21/13 10:33*	*08/23/13 10:40*	*1*
2-Fluorophenol (Surr)	*60*		*24 - 110*	*08/21/13 10:33*	*08/23/13 10:40*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*10 - 110*	*08/21/13 10:33*	*08/23/13 10:40*	*1*
Nitrobenzene-d5 (Surr)	*58*		*20 - 110*	*08/21/13 10:33*	*08/23/13 10:40*	*1*
Phenol-d5 (Surr)	*59*		*26 - 110*	*08/21/13 10:33*	*08/23/13 10:40*	*1*
Terphenyl-d14 (Surr)	*82*		*36 - 110*	*08/21/13 10:33*	*08/23/13 10:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		34	22	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1221	<16		34	16	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1232	<14		34	14	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1242	<13		34	13	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1248	<17		34	17	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1254	<17		34	17	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1260	<17		34	17	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1262	<28		34	28	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Aroclor-1268	<14		34	14	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1
Polychlorinated biphenyls, Total	<13		34	13	ug/Kg	☼	08/21/13 10:38	08/23/13 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*29 - 151*	*08/21/13 10:38*	*08/23/13 08:16*	*1*
DCB Decachlorobiphenyl	*71*		*14 - 163*	*08/21/13 10:38*	*08/23/13 08:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0094**	**J**	0.50	0.0032	mg/L		08/22/13 10:05	08/23/13 17:31	1
Barium	**0.31**	**J B**	10	0.00067	mg/L		08/22/13 10:05	08/23/13 17:31	1
Cadmium	**0.00098**	**J**	0.10	0.00066	mg/L		08/22/13 10:05	08/23/13 17:31	1
Chromium	**0.033**	**J**	0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:31	1
Lead	<0.0019		0.50	0.0019	mg/L		08/22/13 10:05	08/23/13 17:31	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-01

Lab Sample ID: 240-27803-2

Date Collected: 08/07/13 15:31

Matrix: Solid

Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.0067**	**J**	0.25	0.0041	mg/L		08/22/13 10:05	08/23/13 17:31	1
Silver	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/22/13 12:40	08/23/13 13:07	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-02

Date Collected: 08/07/13 16:30
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-3

Matrix: Solid
Percent Solids: 98.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**6.4**	**J**	48	3.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
bis (2-chloroisopropyl) ether	<9.0		95	9.0	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,4,5-Trichlorophenol	<24		140	24	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,4,6-Trichlorophenol	<8.5		140	8.5	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,4-Dichlorophenol	<19		140	19	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,4-Dimethylphenol	<19		140	19	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,4-Dinitrophenol	<20		310	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,4-Dinitrotoluene	<16		190	16	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2,6-Dinitrotoluene	<20		190	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2-Chloronaphthalene	<0.43		48	0.43	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2-Chlorophenol	<7.8		48	7.8	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2-Methylnaphthalene	**23**		6.3	0.48	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2-Methylphenol	<10		190	10	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2-Nitroaniline	<8.6		190	8.6	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
2-Nitrophenol	<7.9		48	7.9	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
3,3'-Dichlorobenzidine	<17		95	17	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
3-Nitroaniline	<15		190	15	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4,6-Dinitro-2-methylphenol	<8.7		140	8.7	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4-Bromophenyl phenyl ether	<12		48	12	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4-Chloro-3-methylphenol	<20		140	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4-Chloroaniline	<16		140	16	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4-Chlorophenyl phenyl ether	<12		48	12	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4-Nitroaniline	<25		190	25	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
4-Nitrophenol	<16		310	16	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Acenaphthene	**16**		6.3	0.72	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Acenaphthylene	**5.5**	**J**	6.3	0.33	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Acetophenone	**10**	**J**	95	8.7	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Anthracene	**42**		6.3	0.74	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Atrazine	<8.6		190	8.6	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Benzaldehyde	<11		95	11	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Benzo[a]anthracene	**290**		6.3	0.60	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Benzo[a]pyrene	**390**		6.3	0.61	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Benzo[b]fluoranthene	**600**		6.3	0.56	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Benzo[g,h,i]perylene	**340**		6.3	0.33	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Benzo[k]fluoranthene	**230**		6.3	0.65	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Bis(2-chloroethoxy)methane	<21		95	21	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Bis(2-chloroethyl)ether	<1.9		95	1.9	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Bis(2-ethylhexyl) phthalate	<18		67	18	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Butyl benzyl phthalate	<9.5		67	9.5	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Caprolactam	<35		310	35	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Carbazole	**33**	**J**	48	26	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Chrysene	**400**		6.3	1.0	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Dibenz(a,h)anthracene	<0.63		6.3	0.63	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Dibenzofuran	**25**	**J**	48	0.63	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Diethyl phthalate	**19**	**J**	67	15	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Dimethyl phthalate	<16		67	16	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Di-n-butyl phthalate	**35**	**J**	67	14	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Di-n-octyl phthalate	<7.5		67	7.5	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Fluoranthene	**420**		6.3	0.52	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-02

Date Collected: 08/07/13 16:30
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-3

Matrix: Solid
Percent Solids: 98.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**18**		6.3	0.50	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Hexachlorobenzene	<2.0		6.3	2.0	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Hexachlorobutadiene	<5.3		48	5.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Hexachlorocyclopentadiene	<7.7		310	7.7	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Hexachloroethane	<8.6		48	8.6	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Indeno[1,2,3-cd]pyrene	**280**		6.3	0.33	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Isophorone	<12		48	12	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Naphthalene	**38**		6.3	0.78	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Nitrobenzene	<2.1		95	2.1	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
N-Nitrosodi-n-propylamine	<6.0		48	6.0	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Pentachlorophenol	<8.6		140	8.6	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Phenol	<6.9		48	6.9	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Phenanthrene	**250**		6.3	0.69	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Pyrene	**360**		6.3	0.42	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
3 & 4 Methylphenol	<19		380	19	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
Pyridine	<3.3		95	3.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1
1,4-Dichlorobenzene	<19		48	19	ug/Kg	☼	08/21/13 10:33	08/23/13 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*24 - 110*	*08/21/13 10:33*	*08/23/13 11:02*	*1*
2-Fluorophenol (Surr)	*63*		*24 - 110*	*08/21/13 10:33*	*08/23/13 11:02*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*10 - 110*	*08/21/13 10:33*	*08/23/13 11:02*	*1*
Nitrobenzene-d5 (Surr)	*58*		*20 - 110*	*08/21/13 10:33*	*08/23/13 11:02*	*1*
Phenol-d5 (Surr)	*62*		*26 - 110*	*08/21/13 10:33*	*08/23/13 11:02*	*1*
Terphenyl-d14 (Surr)	*79*		*36 - 110*	*08/21/13 10:33*	*08/23/13 11:02*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<21		33	21	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1221	<16		33	16	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1232	<14		33	14	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1242	<13		33	13	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1248	<17		33	17	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1254	<17		33	17	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1260	**20**	**J**	33	17	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1262	<27		33	27	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Aroclor-1268	<14		33	14	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1
Polychlorinated biphenyls, Total	**20**	**J**	33	13	ug/Kg	☼	08/21/13 10:38	08/23/13 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*29 - 151*	*08/21/13 10:38*	*08/23/13 08:32*	*1*
DCB Decachlorobiphenyl	*66*		*14 - 163*	*08/21/13 10:38*	*08/23/13 08:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0063**	**J**	0.50	0.0032	mg/L		08/22/13 10:05	08/23/13 17:48	1
Barium	**0.30**	**J B**	10	0.00067	mg/L		08/22/13 10:05	08/23/13 17:48	1
Cadmium	**0.00080**	**J**	0.10	0.00066	mg/L		08/22/13 10:05	08/23/13 17:48	1
Chromium	**0.012**	**J**	0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:48	1
Lead	<0.0019		0.50	0.0019	mg/L		08/22/13 10:05	08/23/13 17:48	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-02

Lab Sample ID: 240-27803-3

Date Collected: 08/07/13 16:30

Matrix: Solid

Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.0092**	**J**	0.25	0.0041	mg/L		08/22/13 10:05	08/23/13 17:48	1
Silver	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/22/13 12:40	08/23/13 13:11	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-03

Date Collected: 08/07/13 14:40
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-4

Matrix: Solid
Percent Solids: 98.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**6.5**	**J**	51	3.6	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
bis (2-chloroisopropyl) ether	<9.7		100	9.7	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,4,5-Trichlorophenol	<26		150	26	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,4,6-Trichlorophenol	<9.1		150	9.1	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,4-Dichlorophenol	<20		150	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,4-Dimethylphenol	<20		150	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,4-Dinitrophenol	<22		340	22	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,4-Dinitrotoluene	<17		200	17	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2,6-Dinitrotoluene	<22		200	22	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2-Chloronaphthalene	<0.46		51	0.46	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2-Chlorophenol	<8.4		51	8.4	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2-Methylnaphthalene	**29**		6.8	0.51	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2-Methylphenol	<11		200	11	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2-Nitroaniline	<9.3		200	9.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
2-Nitrophenol	<8.5		51	8.5	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
3,3'-Dichlorobenzidine	<18		100	18	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
3-Nitroaniline	<16		200	16	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4,6-Dinitro-2-methylphenol	<9.4		150	9.4	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4-Bromophenyl phenyl ether	<13		51	13	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4-Chloro-3-methylphenol	<22		150	22	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4-Chloroaniline	<17		150	17	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4-Chlorophenyl phenyl ether	<13		51	13	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4-Nitroaniline	<27		200	27	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
4-Nitrophenol	<17		340	17	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Acenaphthene	**13**		6.8	0.78	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Acenaphthylene	**5.0**	**J**	6.8	0.36	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Acetophenone	**24**	**J**	100	9.4	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Anthracene	**30**		6.8	0.80	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Atrazine	<9.3		200	9.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Benzaldehyde	**19**	**J**	100	12	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Benzo[a]anthracene	**270**		6.8	0.65	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Benzo[a]pyrene	**370**		6.8	0.66	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Benzo[b]fluoranthene	**530**		6.8	0.60	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Benzo[g,h,i]perylene	**290**		6.8	0.36	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Benzo[k]fluoranthene	**210**		6.8	0.70	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Bis(2-chloroethoxy)methane	<23		100	23	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Bis(2-chloroethyl)ether	<2.0		100	2.0	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Bis(2-ethylhexyl) phthalate	<19		72	19	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Butyl benzyl phthalate	<10		72	10	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Caprolactam	<38		340	38	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Carbazole	<28		51	28	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Chrysene	**350**		6.8	1.1	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Dibenz(a,h)anthracene	<0.68		6.8	0.68	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Dibenzofuran	**23**	**J**	51	0.68	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Diethyl phthalate	<16		72	16	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Dimethyl phthalate	<17		72	17	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Di-n-butyl phthalate	**22**	**J**	72	15	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Di-n-octyl phthalate	<8.1		72	8.1	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Fluoranthene	**360**		6.8	0.56	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-03

Date Collected: 08/07/13 14:40
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-4

Matrix: Solid
Percent Solids: 98.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**12**		6.8	0.54	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Hexachlorobenzene	<2.2		6.8	2.2	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Hexachlorobutadiene	<5.7		51	5.7	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Hexachlorocyclopentadiene	<8.3		340	8.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Hexachloroethane	<9.2		51	9.2	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Indeno[1,2,3-cd]pyrene	**250**		6.8	0.36	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Isophorone	**16**	**J**	51	13	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Naphthalene	**32**		6.8	0.84	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Nitrobenzene	<2.3		100	2.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
N-Nitrosodi-n-propylamine	<6.5		51	6.5	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Pentachlorophenol	<9.3		150	9.3	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Phenol	**9.1**	**J**	51	7.5	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Phenanthrene	**190**		6.8	0.75	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Pyrene	**320**		6.8	0.45	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
3 & 4 Methylphenol	<20		410	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
Pyridine	<3.6		100	3.6	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1
1,4-Dichlorobenzene	<20		51	20	ug/Kg	☼	08/21/13 10:33	08/23/13 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*24 - 110*	*08/21/13 10:33*	*08/23/13 11:24*	*1*
2-Fluorophenol (Surr)	*61*		*24 - 110*	*08/21/13 10:33*	*08/23/13 11:24*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*10 - 110*	*08/21/13 10:33*	*08/23/13 11:24*	*1*
Nitrobenzene-d5 (Surr)	*57*		*20 - 110*	*08/21/13 10:33*	*08/23/13 11:24*	*1*
Phenol-d5 (Surr)	*60*		*26 - 110*	*08/21/13 10:33*	*08/23/13 11:24*	*1*
Terphenyl-d14 (Surr)	*79*		*36 - 110*	*08/21/13 10:33*	*08/23/13 11:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<20		31	20	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1221	<15		31	15	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1232	<13		31	13	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1242	<12		31	12	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1248	<16		31	16	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1254	<16		31	16	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1260	<16		31	16	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1262	<25		31	25	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Aroclor-1268	<13		31	13	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1
Polychlorinated biphenyls, Total	<12		31	12	ug/Kg	☼	08/21/13 10:38	08/23/13 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*29 - 151*	*08/21/13 10:38*	*08/23/13 08:48*	*1*
DCB Decachlorobiphenyl	*66*		*14 - 163*	*08/21/13 10:38*	*08/23/13 08:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0093**	**J**	0.50	0.0032	mg/L		08/22/13 10:05	08/23/13 17:52	1
Barium	**0.34**	**J B**	10	0.00067	mg/L		08/22/13 10:05	08/23/13 17:52	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/22/13 10:05	08/23/13 17:52	1
Chromium	**0.019**	**J**	0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:52	1
Lead	<0.0019		0.50	0.0019	mg/L		08/22/13 10:05	08/23/13 17:52	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-03

Lab Sample ID: 240-27803-4

Date Collected: 08/07/13 14:40

Matrix: Solid

Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.0061**	**J**	0.25	0.0041	mg/L		08/22/13 10:05	08/23/13 17:52	1
Silver	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/22/13 12:40	08/23/13 13:12	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-08-GR-01

Lab Sample ID: 240-27803-5

Date Collected: 08/08/13 09:40
Date Received: 08/09/13 08:15

Matrix: Solid
Percent Solids: 94.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<19		170	19	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Acenaphthylene	<8.9		170	8.9	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Acetophenone	<240		2600	240	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Anthracene	<20		170	20	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Atrazine	<230		5100	230	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Benzaldehyde	<310	*	2600	310	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Benzo[a]anthracene	<16		170	16	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Benzo[b]fluoranthene	<15		170	15	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Benzo[k]fluoranthene	<17		170	17	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Benzo[g,h,i]perylene	<8.9		170	8.9	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Benzo[a]pyrene	<16		170	16	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Butyl benzyl phthalate	<260		1800	260	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
1,1'-Biphenyl	<89		1300	89	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Bis(2-chloroethoxy)methane	<560		2600	560	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Bis(2-chloroethyl)ether	<51		2600	51	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Bis(2-ethylhexyl) phthalate	<490		1800	490	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4-Bromophenyl phenyl ether	<330		1300	330	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Caprolactam	<950		8400	950	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Carbazole	<690		1300	690	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4-Chloroaniline	<430		3800	430	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4-Chloro-3-methylphenol	<540		3800	540	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2-Chloronaphthalene	<11		1300	11	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2-Chlorophenol	<210		1300	210	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4-Chlorophenyl phenyl ether	<330		1300	330	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Chrysene	<28		170	28	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2-Methylnaphthalene	<13		170	13	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
3 & 4 Methylphenol	<510		10000	510	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Dibenz(a,h)anthracene	<17		170	17	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Dibenzofuran	<17		1300	17	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
3,3'-Dichlorobenzidine	<460		2600	460	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,4-Dichlorophenol	<510		3800	510	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Diethyl phthalate	<410		1800	410	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,4-Dimethylphenol	<510		3800	510	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Dimethyl phthalate	<430		1800	430	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4,6-Dinitro-2-methylphenol	<240		3800	240	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,4-Dinitrophenol	<540		8400	540	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,4-Dinitrotoluene	<430		5100	430	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Di-n-butyl phthalate	<380		1800	380	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Di-n-octyl phthalate	<200		1800	200	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Fluoranthene	<14		170	14	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Fluorene	<14		170	14	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Hexachlorobenzene	<54		170	54	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Hexachlorobutadiene	<140		1300	140	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Hexachlorocyclopentadiene	<210		8400	210	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Hexachloroethane	<230		1300	230	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Indeno[1,2,3-cd]pyrene	<8.9		170	8.9	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Isophorone	<330		1300	330	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2-Methylphenol	<280		5100	280	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Naphthalene	<21		170	21	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-08-GR-01

Date Collected: 08/08/13 09:40
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-5

Matrix: Solid
Percent Solids: 94.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<230		5100	230	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
3-Nitroaniline	<410		5100	410	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4-Nitroaniline	<660		5100	660	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Nitrobenzene	<56		2600	56	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2-Nitrophenol	<210		1300	210	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
4-Nitrophenol	<430		8400	430	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
N-Nitrosodi-n-propylamine	<160		1300	160	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
bis (2-chloroisopropyl) ether	<240		2600	240	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Pentachlorophenol	<230		3800	230	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Phenanthrene	<19		170	19	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Phenol	<190		1300	190	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Pyrene	<11		170	11	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,4,5-Trichlorophenol	<640		3800	640	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,4,6-Trichlorophenol	<230		3800	230	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
2,6-Dinitrotoluene	<540		5100	540	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
Pyridine	<89		2600	89	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4
1,4-Dichlorobenzene	<510		1300	510	ug/Kg	☼	08/17/13 08:57	08/20/13 20:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*24 - 110*	*08/17/13 08:57*	*08/20/13 20:19*	*4*
2-Fluorophenol (Surr)	*32*		*24 - 110*	*08/17/13 08:57*	*08/20/13 20:19*	*4*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*10 - 110*	*08/17/13 08:57*	*08/20/13 20:19*	*4*
Nitrobenzene-d5 (Surr)	*67*		*20 - 110*	*08/17/13 08:57*	*08/20/13 20:19*	*4*
Phenol-d5 (Surr)	*66*		*26 - 110*	*08/17/13 08:57*	*08/20/13 20:19*	*4*
Terphenyl-d14 (Surr)	*100*		*36 - 110*	*08/17/13 08:57*	*08/20/13 20:19*	*4*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		210	130	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1221	<100		210	100	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1232	<89		210	89	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1242	<82		210	82	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1248	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1254	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1260	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1262	<170		210	170	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Aroclor-1268	<89		210	89	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1
Polychlorinated biphenyls, Total	<82		210	82	ug/Kg	☼	08/16/13 08:46	08/21/13 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*29 - 151*	*08/16/13 08:46*	*08/21/13 12:22*	*1*
DCB Decachlorobiphenyl	*76*		*14 - 163*	*08/16/13 08:46*	*08/21/13 12:22*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 18:55	1
Arsenic	**0.0040**	**J**	0.50	0.0032	mg/L		08/15/13 08:50	08/16/13 18:55	1
Barium	**0.78**	**J B**	10	0.00067	mg/L		08/15/13 08:50	08/16/13 18:55	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 08:50	08/16/13 18:55	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 18:55	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-08-GR-01

Lab Sample ID: 240-27803-5

Date Collected: 08/08/13 09:40

Matrix: Solid

Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0019		0.50	0.0019	mg/L		08/15/13 08:50	08/16/13 18:55	1
Selenium	**0.011**	**J B**	0.25	0.0041	mg/L		08/15/13 08:50	08/16/13 18:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 13:42	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-09-GR-01

Date Collected: 08/08/13 09:55
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-6

Matrix: Solid
Percent Solids: 96.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.7		41	4.7	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Acenaphthylene	<2.2		41	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Acetophenone	<57		620	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Anthracene	<4.8		41	4.8	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Atrazine	<56		1200	56	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Benzaldehyde	<74	*	620	74	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Benzo[a]anthracene	**120**		41	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Benzo[b]fluoranthene	**190**		41	3.6	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Benzo[k]fluoranthene	**69**		41	4.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Benzo[g,h,i]perylene	**130**		41	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Benzo[a]pyrene	**120**		41	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Butyl benzyl phthalate	<62		430	62	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
1,1'-Biphenyl	<22		310	22	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Bis(2-chloroethoxy)methane	<140		620	140	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Bis(2-chloroethyl)ether	<12		620	12	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Bis(2-ethylhexyl) phthalate	**230**	**J B**	430	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4-Bromophenyl phenyl ether	<80		310	80	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Caprolactam	<230		2000	230	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Carbazole	<170		310	170	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4-Chloroaniline	<100		930	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4-Chloro-3-methylphenol	<130		930	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2-Chloronaphthalene	<2.8		310	2.8	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2-Chlorophenol	<51		310	51	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4-Chlorophenyl phenyl ether	<80		310	80	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Chrysene	**130**		41	6.8	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2-Methylnaphthalene	<3.1		41	3.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
3 & 4 Methylphenol	<120		2500	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Dibenz(a,h)anthracene	<4.1		41	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Dibenzofuran	<4.1		310	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
3,3'-Dichlorobenzidine	<110		620	110	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,4-Dichlorophenol	<120		930	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Diethyl phthalate	<99		430	99	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,4-Dimethylphenol	<120		930	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Dimethyl phthalate	<100		430	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4,6-Dinitro-2-methylphenol	<57		930	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,4-Dinitrophenol	<130		2000	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,4-Dinitrotoluene	<100		1200	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Di-n-butyl phthalate	**160**	**J B**	430	93	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Di-n-octyl phthalate	<49		430	49	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Fluoranthene	**180**		41	3.4	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Fluorene	<3.3		41	3.3	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Hexachlorobenzene	<13		41	13	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Hexachlorobutadiene	<35		310	35	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Hexachlorocyclopentadiene	<50		2000	50	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Hexachloroethane	<56		310	56	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Indeno[1,2,3-cd]pyrene	**100**		41	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Isophorone	<80		310	80	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2-Methylphenol	<68		1200	68	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Naphthalene	<5.1		41	5.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-09-GR-01

Date Collected: 08/08/13 09:55
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-6

Matrix: Solid
Percent Solids: 96.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<56		1200	56	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
3-Nitroaniline	<99		1200	99	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4-Nitroaniline	<160		1200	160	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Nitrobenzene	<14		620	14	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2-Nitrophenol	<51		310	51	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
4-Nitrophenol	<100		2000	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
N-Nitrosodi-n-propylamine	<39		310	39	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
bis (2-chloroisopropyl) ether	<59		620	59	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Pentachlorophenol	<56		930	56	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Phenanthrene	**93**		41	4.5	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Phenol	<45		310	45	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Pyrene	**140**		41	2.7	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,4,5-Trichlorophenol	<150		930	150	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,4,6-Trichlorophenol	<55		930	55	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
2,6-Dinitrotoluene	<130		1200	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
Pyridine	<22		620	22	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1
1,4-Dichlorobenzene	<120		310	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*24 - 110*	*08/17/13 08:57*	*08/20/13 19:29*	*1*
2-Fluorophenol (Surr)	*62*		*24 - 110*	*08/17/13 08:57*	*08/20/13 19:29*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 110*	*08/17/13 08:57*	*08/20/13 19:29*	*1*
Nitrobenzene-d5 (Surr)	*62*		*20 - 110*	*08/17/13 08:57*	*08/20/13 19:29*	*1*
Phenol-d5 (Surr)	*66*		*26 - 110*	*08/17/13 08:57*	*08/20/13 19:29*	*1*
Terphenyl-d14 (Surr)	*103*		*36 - 110*	*08/17/13 08:57*	*08/20/13 19:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		210	130	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1221	<100		210	100	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1232	<88		210	88	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1242	<81		210	81	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1248	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1254	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1260	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1262	<170		210	170	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Aroclor-1268	<88		210	88	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1
Polychlorinated biphenyls, Total	<81		210	81	ug/Kg	☼	08/16/13 08:46	08/20/13 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*29 - 151*	*08/16/13 08:46*	*08/20/13 08:22*	*1*
DCB Decachlorobiphenyl	*90*		*14 - 163*	*08/16/13 08:46*	*08/20/13 08:22*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 13:46	1
Arsenic	**0.0032**	**J**	0.50	0.0032	mg/L		08/15/13 09:03	08/16/13 13:46	1
Barium	**0.055**	**J B**	10	0.00067	mg/L		08/15/13 09:03	08/16/13 13:46	1
Cadmium	**0.0020**	**J**	0.10	0.00066	mg/L		08/15/13 09:03	08/16/13 13:46	1
Chromium	**0.039**	**J**	0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 13:46	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-09-GR-01

Lab Sample ID: 240-27803-6

Date Collected: 08/08/13 09:55

Matrix: Solid

Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.038	J	0.50	0.0019	mg/L		08/15/13 09:03	08/16/13 13:46	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/15/13 09:03	08/16/13 13:46	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 11:30	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-10-GR-01

Date Collected: 08/08/13 10:23
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-7

Matrix: Solid
Percent Solids: 98.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.5		40	4.5	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Acenaphthylene	<2.1		40	2.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Acetophenone	<55		600	55	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Anthracene	<4.7		40	4.7	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Atrazine	<54		1200	54	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Benzaldehyde	<72	*	600	72	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Benzo[a]anthracene	<3.8		40	3.8	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Benzo[b]fluoranthene	**36**	**J**	40	3.5	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Benzo[k]fluoranthene	<4.1		40	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Benzo[g,h,i]perylene	**31**	**J**	40	2.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Benzo[a]pyrene	**20**	**J**	40	3.8	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Butyl benzyl phthalate	<60		420	60	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
1,1'-Biphenyl	<21		300	21	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Bis(2-chloroethoxy)methane	<130		600	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Bis(2-chloroethyl)ether	<12		600	12	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Bis(2-ethylhexyl) phthalate	**290**	**J B**	420	110	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4-Bromophenyl phenyl ether	<78		300	78	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Caprolactam	<220		2000	220	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Carbazole	<160		300	160	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4-Chloroaniline	<100		900	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4-Chloro-3-methylphenol	<130		900	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2-Chloronaphthalene	<2.7		300	2.7	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2-Chlorophenol	<49		300	49	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4-Chlorophenyl phenyl ether	<78		300	78	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Chrysene	<6.6		40	6.6	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2-Methylnaphthalene	<3.0		40	3.0	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
3 & 4 Methylphenol	<120		2400	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Dibenz(a,h)anthracene	<3.9		40	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Dibenzofuran	<3.9		300	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
3,3'-Dichlorobenzidine	<110		600	110	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,4-Dichlorophenol	<120		900	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Diethyl phthalate	<96		420	96	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,4-Dimethylphenol	<120		900	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Dimethyl phthalate	<100		420	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4,6-Dinitro-2-methylphenol	<55		900	55	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,4-Dinitrophenol	<130		2000	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,4-Dinitrotoluene	<100		1200	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Di-n-butyl phthalate	**170**	**J B**	420	90	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Di-n-octyl phthalate	<47		420	47	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Fluoranthene	<3.3		40	3.3	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Fluorene	<3.2		40	3.2	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Hexachlorobenzene	<13		40	13	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Hexachlorobutadiene	<33		300	33	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Hexachlorocyclopentadiene	<48		2000	48	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Hexachloroethane	<54		300	54	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Indeno[1,2,3-cd]pyrene	<2.1		40	2.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Isophorone	<78		300	78	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2-Methylphenol	<66		1200	66	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Naphthalene	<4.9		40	4.9	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-10-GR-01

Date Collected: 08/08/13 10:23
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-7

Matrix: Solid
Percent Solids: 98.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<54		1200	54	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
3-Nitroaniline	<96		1200	96	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4-Nitroaniline	<160		1200	160	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Nitrobenzene	<13		600	13	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2-Nitrophenol	<50		300	50	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
4-Nitrophenol	<100		2000	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
N-Nitrosodi-n-propylamine	<38		300	38	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
bis (2-chloroisopropyl) ether	<57		600	57	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Pentachlorophenol	<54		900	54	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Phenanthrene	<4.4		40	4.4	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Phenol	<44		300	44	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Pyrene	<2.6		40	2.6	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,4,5-Trichlorophenol	<150		900	150	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,4,6-Trichlorophenol	<53		900	53	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
2,6-Dinitrotoluene	<130		1200	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
Pyridine	<21		600	21	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1
1,4-Dichlorobenzene	<120		300	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*24 - 110*	*08/17/13 08:57*	*08/20/13 18:39*	*1*
2-Fluorophenol (Surr)	*78*		*24 - 110*	*08/17/13 08:57*	*08/20/13 18:39*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 110*	*08/17/13 08:57*	*08/20/13 18:39*	*1*
Nitrobenzene-d5 (Surr)	*73*		*20 - 110*	*08/17/13 08:57*	*08/20/13 18:39*	*1*
Phenol-d5 (Surr)	*78*		*26 - 110*	*08/17/13 08:57*	*08/20/13 18:39*	*1*
Terphenyl-d14 (Surr)	*109*		*36 - 110*	*08/17/13 08:57*	*08/20/13 18:39*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		200	130	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1221	<96		200	96	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1232	<84		200	84	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1242	<78		200	78	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1248	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1254	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1260	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1262	<160		200	160	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Aroclor-1268	<84		200	84	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1
Polychlorinated biphenyls, Total	<78		200	78	ug/Kg	☼	08/16/13 08:46	08/20/13 08:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*29 - 151*	*08/16/13 08:46*	*08/20/13 08:37*	*1*
DCB Decachlorobiphenyl	*90*		*14 - 163*	*08/16/13 08:46*	*08/20/13 08:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 14:07	1
Arsenic	**0.014**	**J**	0.50	0.0032	mg/L		08/15/13 09:03	08/16/13 14:07	1
Barium	**0.11**	**J B**	10	0.00067	mg/L		08/15/13 09:03	08/16/13 14:07	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 09:03	08/16/13 14:07	1
Chromium	**0.28**	**J**	0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 14:07	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-10-GR-01

Lab Sample ID: 240-27803-7

Date Collected: 08/08/13 10:23
Matrix: Solid
Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0060	J	0.50	0.0019	mg/L		08/15/13 09:03	08/16/13 14:07	1
Selenium	0.0044	J B	0.25	0.0041	mg/L		08/15/13 09:03	08/16/13 14:07	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 11:35	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-11-GR-01

Date Collected: 08/08/13 10:35
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-8

Matrix: Solid
Percent Solids: 96.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.7		41	4.7	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Acenaphthylene	<2.2		41	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Acetophenone	<57		610	57	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Anthracene	<4.8		41	4.8	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Atrazine	<56		1200	56	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Benzaldehyde	<74	*	610	74	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Benzo[a]anthracene	<3.9		41	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Benzo[b]fluoranthene	<3.6		41	3.6	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Benzo[k]fluoranthene	<4.2		41	4.2	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Benzo[g,h,i]perylene	<2.2		41	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Benzo[a]pyrene	<3.9		41	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Butyl benzyl phthalate	<61		430	61	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
1,1'-Biphenyl	<22		310	22	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Bis(2-chloroethoxy)methane	<140		610	140	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Bis(2-chloroethyl)ether	<12		610	12	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Bis(2-ethylhexyl) phthalate	**320**	**J B**	430	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4-Bromophenyl phenyl ether	<80		310	80	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Caprolactam	<230		2000	230	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Carbazole	<170		310	170	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4-Chloroaniline	<100		920	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4-Chloro-3-methylphenol	<130		920	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2-Chloronaphthalene	<2.8		310	2.8	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2-Chlorophenol	<50		310	50	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4-Chlorophenyl phenyl ether	<80		310	80	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Chrysene	<6.8		41	6.8	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2-Methylnaphthalene	<3.1		41	3.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
3 & 4 Methylphenol	<120		2500	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Dibenz(a,h)anthracene	<4.1		41	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Dibenzofuran	<4.1		310	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
3,3'-Dichlorobenzidine	<110		610	110	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,4-Dichlorophenol	<120		920	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Diethyl phthalate	<98		430	98	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,4-Dimethylphenol	<120		920	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Dimethyl phthalate	<100		430	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4,6-Dinitro-2-methylphenol	<57		920	57	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,4-Dinitrophenol	<130		2000	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,4-Dinitrotoluene	<100		1200	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Di-n-butyl phthalate	**190**	**J B**	430	92	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Di-n-octyl phthalate	<49		430	49	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Fluoranthene	<3.4		41	3.4	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Fluorene	<3.3		41	3.3	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Hexachlorobenzene	<13		41	13	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Hexachlorobutadiene	<34		310	34	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Hexachlorocyclopentadiene	<50		2000	50	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Hexachloroethane	<55		310	55	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Indeno[1,2,3-cd]pyrene	<2.2		41	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Isophorone	<80		310	80	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2-Methylphenol	<68		1200	68	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Naphthalene	<5.0		41	5.0	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-11-GR-01

Date Collected: 08/08/13 10:35
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-8

Matrix: Solid
Percent Solids: 96.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<56		1200	56	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
3-Nitroaniline	<98		1200	98	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4-Nitroaniline	<160		1200	160	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Nitrobenzene	<14		610	14	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2-Nitrophenol	<51		310	51	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
4-Nitrophenol	<100		2000	100	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
N-Nitrosodi-n-propylamine	<39		310	39	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
bis (2-chloroisopropyl) ether	<58		610	58	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Pentachlorophenol	<56		920	56	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Phenanthrene	<4.5		41	4.5	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Phenol	<45		310	45	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Pyrene	<2.7		41	2.7	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,4,5-Trichlorophenol	<150		920	150	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,4,6-Trichlorophenol	<55		920	55	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
2,6-Dinitrotoluene	<130		1200	130	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
Pyridine	<22		610	22	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1
1,4-Dichlorobenzene	<120		310	120	ug/Kg	☼	08/17/13 08:57	08/20/13 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*24 - 110*	*08/17/13 08:57*	*08/20/13 18:14*	*1*
2-Fluorophenol (Surr)	*71*		*24 - 110*	*08/17/13 08:57*	*08/20/13 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 110*	*08/17/13 08:57*	*08/20/13 18:14*	*1*
Nitrobenzene-d5 (Surr)	*70*		*20 - 110*	*08/17/13 08:57*	*08/20/13 18:14*	*1*
Phenol-d5 (Surr)	*75*		*26 - 110*	*08/17/13 08:57*	*08/20/13 18:14*	*1*
Terphenyl-d14 (Surr)	*105*		*36 - 110*	*08/17/13 08:57*	*08/20/13 18:14*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		200	130	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1221	<98		200	98	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1232	<86		200	86	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1242	<80		200	80	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1248	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1254	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1260	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1262	<170		200	170	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Aroclor-1268	<86		200	86	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1
Polychlorinated biphenyls, Total	<80		200	80	ug/Kg	☼	08/16/13 08:46	08/20/13 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*29 - 151*	*08/16/13 08:46*	*08/20/13 09:21*	*1*
DCB Decachlorobiphenyl	*93*		*14 - 163*	*08/16/13 08:46*	*08/20/13 09:21*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 14:11	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/15/13 09:03	08/16/13 14:11	1
Barium	**0.047**	**J B**	10	0.00067	mg/L		08/15/13 09:03	08/16/13 14:11	1
Cadmium	**0.0013**	**J**	0.10	0.00066	mg/L		08/15/13 09:03	08/16/13 14:11	1
Chromium	**0.011**	**J**	0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 14:11	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-11-GR-01

Lab Sample ID: 240-27803-8

Date Collected: 08/08/13 10:35
Matrix: Solid
Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013	J	0.50	0.0019	mg/L		08/15/13 09:03	08/16/13 14:11	1
Selenium	0.0048	J B	0.25	0.0041	mg/L		08/15/13 09:03	08/16/13 14:11	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 11:37	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-12-GR-01

Lab Sample ID: 240-27803-9

Date Collected: 08/08/13 10:56
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 96.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.7		42	4.7	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Acenaphthylene	<2.2		42	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Acetophenone	<57		620	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Anthracene	<4.9		42	4.9	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Atrazine	<57		1200	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Benzaldehyde	<75	*	620	75	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Benzo[a]anthracene	<3.9		42	3.9	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Benzo[b]fluoranthene	<3.7		42	3.7	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Benzo[k]fluoranthene	<4.2		42	4.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Benzo[g,h,i]perylene	<2.2		42	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Benzo[a]pyrene	<4.0		42	4.0	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Butyl benzyl phthalate	<62		440	62	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
1,1'-Biphenyl	<22		310	22	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Bis(2-chloroethoxy)methane	<140		620	140	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Bis(2-chloroethyl)ether	<12		620	12	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Bis(2-ethylhexyl) phthalate	**320**	**J B**	440	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4-Bromophenyl phenyl ether	<81		310	81	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Caprolactam	<230		2100	230	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Carbazole	<170		310	170	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4-Chloroaniline	<110		930	110	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4-Chloro-3-methylphenol	<130		930	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2-Chloronaphthalene	<2.8		310	2.8	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2-Chlorophenol	<51		310	51	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4-Chlorophenyl phenyl ether	<81		310	81	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Chrysene	<6.8		42	6.8	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2-Methylnaphthalene	<3.1		42	3.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
3 & 4 Methylphenol	<120		2500	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Dibenz(a,h)anthracene	<4.1		42	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Dibenzofuran	<4.1		310	4.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
3,3'-Dichlorobenzidine	<110		620	110	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,4-Dichlorophenol	<120		930	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Diethyl phthalate	<100		440	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,4-Dimethylphenol	<120		930	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Dimethyl phthalate	<110		440	110	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4,6-Dinitro-2-methylphenol	<57		930	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,4-Dinitrophenol	<130		2100	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,4-Dinitrotoluene	<110		1200	110	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Di-n-butyl phthalate	**170**	**J B**	440	93	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Di-n-octyl phthalate	<49		440	49	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Fluoranthene	<3.4		42	3.4	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Fluorene	<3.3		42	3.3	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Hexachlorobenzene	<13		42	13	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Hexachlorobutadiene	<35		310	35	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Hexachlorocyclopentadiene	<50		2100	50	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Hexachloroethane	<56		310	56	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Indeno[1,2,3-cd]pyrene	<2.2		42	2.2	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Isophorone	<81		310	81	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2-Methylphenol	<68		1200	68	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Naphthalene	<5.1		42	5.1	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-12-GR-01

Date Collected: 08/08/13 10:56
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-9

Matrix: Solid
Percent Solids: 96.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<57		1200	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
3-Nitroaniline	<100		1200	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4-Nitroaniline	<160		1200	160	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Nitrobenzene	<14		620	14	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2-Nitrophenol	<52		310	52	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
4-Nitrophenol	<110		2100	110	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
N-Nitrosodi-n-propylamine	<39		310	39	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
bis (2-chloroisopropyl) ether	<59		620	59	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Pentachlorophenol	<57		930	57	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Phenanthrene	<4.5		42	4.5	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Phenol	<45		310	45	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Pyrene	<2.7		42	2.7	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,4,5-Trichlorophenol	<160		930	160	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,4,6-Trichlorophenol	<55		930	55	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
2,6-Dinitrotoluene	<130		1200	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
Pyridine	<22		620	22	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1
1,4-Dichlorobenzene	<120		310	120	ug/Kg	☼	08/17/13 08:57	08/20/13 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*24 - 110*	*08/17/13 08:57*	*08/20/13 19:04*	*1*
2-Fluorophenol (Surr)	*76*		*24 - 110*	*08/17/13 08:57*	*08/20/13 19:04*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 110*	*08/17/13 08:57*	*08/20/13 19:04*	*1*
Nitrobenzene-d5 (Surr)	*68*		*20 - 110*	*08/17/13 08:57*	*08/20/13 19:04*	*1*
Phenol-d5 (Surr)	*76*		*26 - 110*	*08/17/13 08:57*	*08/20/13 19:04*	*1*
Terphenyl-d14 (Surr)	*104*		*36 - 110*	*08/17/13 08:57*	*08/20/13 19:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		210	130	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1221	<100		210	100	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1232	<87		210	87	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1242	<81		210	81	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1248	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1254	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1260	<110		210	110	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1262	<170		210	170	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Aroclor-1268	<87		210	87	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1
Polychlorinated biphenyls, Total	<81		210	81	ug/Kg	☼	08/16/13 08:46	08/20/13 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*29 - 151*	*08/16/13 08:46*	*08/20/13 09:36*	*1*
DCB Decachlorobiphenyl	*94*		*14 - 163*	*08/16/13 08:46*	*08/20/13 09:36*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 14:15	1
Arsenic	**0.0069**	**J**	0.50	0.0032	mg/L		08/15/13 09:03	08/16/13 14:15	1
Barium	**0.33**	**J B**	10	0.00067	mg/L		08/15/13 09:03	08/16/13 14:15	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 09:03	08/16/13 14:15	1
Chromium	**0.0067**	**J**	0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 14:15	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-12-GR-01

Lab Sample ID: 240-27803-9

Date Collected: 08/08/13 10:56
Matrix: Solid
Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0019		0.50	0.0019	mg/L		08/15/13 09:03	08/16/13 14:15	1
Selenium	**0.0059**	**J B**	0.25	0.0041	mg/L		08/15/13 09:03	08/16/13 14:15	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 11:38	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-14-COM-01

Date Collected: 08/08/13 12:46
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-10

Matrix: Solid
Percent Solids: 99.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<93		810	93	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Acenaphthylene	<43		810	43	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Acetophenone	**92000**		12000	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Anthracene	<95		810	95	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Atrazine	<1100		24000	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Benzaldehyde	**12000**	*	12000	1500	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Benzo[a]anthracene	<77		810	77	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Benzo[b]fluoranthene	<72		810	72	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Benzo[k]fluoranthene	<83		810	83	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Benzo[g,h,i]perylene	<43		810	43	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Benzo[a]pyrene	<78		810	78	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Butyl benzyl phthalate	<1200		8500	1200	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
1,1'-Biphenyl	**790**	J	6100	430	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Bis(2-chloroethoxy)methane	<2700		12000	2700	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Bis(2-chloroethyl)ether	<240		12000	240	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Bis(2-ethylhexyl) phthalate	<2300		8500	2300	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4-Bromophenyl phenyl ether	<1600		6100	1600	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Caprolactam	<4500		40000	4500	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Carbazole	<3300		6100	3300	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4-Chloroaniline	<2100		18000	2100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4-Chloro-3-methylphenol	<2600		18000	2600	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2-Chloronaphthalene	<55		6100	55	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2-Chlorophenol	<1000		6100	1000	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4-Chlorophenyl phenyl ether	<1600		6100	1600	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Chrysene	<130		810	130	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2-Methylnaphthalene	<61		810	61	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
3 & 4 Methylphenol	**11000**	J	49000	2400	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Dibenz(a,h)anthracene	<81		810	81	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Dibenzofuran	<81		6100	81	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
3,3'-Dichlorobenzidine	<2200		12000	2200	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,4-Dichlorophenol	<2400		18000	2400	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Diethyl phthalate	<2000		8500	2000	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,4-Dimethylphenol	**2400**	J	18000	2400	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Dimethyl phthalate	**110000**		8500	2100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4,6-Dinitro-2-methylphenol	<1100		18000	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,4-Dinitrophenol	<2600		40000	2600	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,4-Dinitrotoluene	<2100		24000	2100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Di-n-butyl phthalate	**120000**	B	8500	1800	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Di-n-octyl phthalate	<960		8500	960	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Fluoranthene	<67		810	67	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Fluorene	<65		810	65	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Hexachlorobenzene	<260		810	260	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Hexachlorobutadiene	<680		6100	680	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Hexachlorocyclopentadiene	<990		40000	990	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Hexachloroethane	<1100		6100	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Indeno[1,2,3-cd]pyrene	<43		810	43	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Isophorone	<1600		6100	1600	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2-Methylphenol	<1300		24000	1300	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Naphthalene	**520**	J	810	100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-14-COM-01

Date Collected: 08/08/13 12:46
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-10

Matrix: Solid
Percent Solids: 99.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<1100		24000	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
3-Nitroaniline	<2000		24000	2000	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4-Nitroaniline	<3200		24000	3200	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Nitrobenzene	<270		12000	270	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2-Nitrophenol	<1000		6100	1000	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
4-Nitrophenol	<2100		40000	2100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
N-Nitrosodi-n-propylamine	<770		6100	770	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
bis (2-chloroisopropyl) ether	<1200		12000	1200	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Pentachlorophenol	<1100		18000	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Phenanthrene	<89		810	89	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Phenol	**33000**		6100	890	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Pyrene	<54		810	54	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,4,5-Trichlorophenol	<3100		18000	3100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,4,6-Trichlorophenol	<1100		18000	1100	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
2,6-Dinitrotoluene	<2600		24000	2600	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
Pyridine	<430		12000	430	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20
1,4-Dichlorobenzene	<2400		6100	2400	ug/Kg	☼	08/17/13 08:57	08/20/13 19:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*24 - 110*	*08/17/13 08:57*	*08/20/13 19:54*	*20*
2-Fluorophenol (Surr)	*78*		*24 - 110*	*08/17/13 08:57*	*08/20/13 19:54*	*20*
2,4,6-Tribromophenol (Surr)	*148*	*X*	*10 - 110*	*08/17/13 08:57*	*08/20/13 19:54*	*20*
Nitrobenzene-d5 (Surr)	*67*		*20 - 110*	*08/17/13 08:57*	*08/20/13 19:54*	*20*
Phenol-d5 (Surr)	*81*		*26 - 110*	*08/17/13 08:57*	*08/20/13 19:54*	*20*
Terphenyl-d14 (Surr)	*105*		*36 - 110*	*08/17/13 08:57*	*08/20/13 19:54*	*20*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<250		400	250	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1221	<190		400	190	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1232	<170		400	170	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1242	<160		400	160	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1248	<200		400	200	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1254	<200		400	200	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1260	<200		400	200	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1262	<320		400	320	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Aroclor-1268	<170		400	170	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2
Polychlorinated biphenyls, Total	<160		400	160	ug/Kg	☼	08/16/13 08:46	08/20/13 09:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*29 - 151*	*08/16/13 08:46*	*08/20/13 09:51*	*2*
DCB Decachlorobiphenyl	*79*		*14 - 163*	*08/16/13 08:46*	*08/20/13 09:51*	*2*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 19:19	1
Arsenic	**0.012**	**J**	0.50	0.0032	mg/L		08/15/13 08:50	08/16/13 19:19	1
Barium	**0.087**	**J B**	10	0.00067	mg/L		08/15/13 08:50	08/16/13 19:19	1
Cadmium	**0.0016**	**J**	0.10	0.00066	mg/L		08/15/13 08:50	08/16/13 19:19	1
Chromium	**0.025**	**J**	0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 19:19	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-14-COM-01

Lab Sample ID: 240-27803-10

Date Collected: 08/08/13 12:46

Matrix: Solid

Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.013**	**J**	0.50	0.0019	mg/L		08/15/13 08:50	08/16/13 19:19	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/15/13 08:50	08/16/13 19:19	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 13:49	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-IDW-GR-01

Lab Sample ID: 240-27803-11

Date Collected: 08/08/13 14:05
Matrix: Water
Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	8.8		5.0	2.2	ug/L		08/14/13 08:01	08/15/13 12:18	1
Aluminum	8200		200	97	ug/L		08/14/13 08:01	08/15/13 12:18	1
Arsenic	12		10	3.2	ug/L		08/14/13 08:01	08/15/13 12:18	1
Cadmium	12		2.0	0.66	ug/L		08/14/13 08:01	08/15/13 12:18	1
Cobalt	40		7.0	1.7	ug/L		08/14/13 08:01	08/15/13 12:18	1
Chromium	740		5.0	2.2	ug/L		08/14/13 08:01	08/15/13 12:18	1
Copper	310		25	4.5	ug/L		08/14/13 08:01	08/15/13 12:18	1
Iron	15000		100	81	ug/L		08/14/13 08:01	08/15/13 12:18	1
Manganese	940	B	15	0.41	ug/L		08/14/13 08:01	08/15/13 12:18	1
Nickel	59		40	3.2	ug/L		08/14/13 08:01	08/15/13 12:18	1
Lead	250		3.0	1.9	ug/L		08/14/13 08:01	08/15/13 12:18	1
Antimony	130		10	1.8	ug/L		08/14/13 08:01	08/15/13 12:18	1
Selenium	<4.1		5.0	4.1	ug/L		08/14/13 08:01	08/15/13 12:18	1
Titanium	290		50	5.3	ug/L		08/14/13 08:01	08/15/13 12:18	1
Thallium	<4.7		10	4.7	ug/L		08/14/13 08:01	08/15/13 12:18	1
Vanadium	15	B	7.0	0.64	ug/L		08/14/13 08:01	08/15/13 12:18	1
Zinc	1200	B	50	5.0	ug/L		08/14/13 08:01	08/15/13 12:18	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<2.2		5.0	2.2	ug/L		08/15/13 06:43	08/16/13 16:25	1
Aluminum	570		200	97	ug/L		08/15/13 06:43	08/16/13 16:25	1
Arsenic	10		10	3.2	ug/L		08/15/13 06:43	08/16/13 16:25	1
Cadmium	11		2.0	0.66	ug/L		08/15/13 06:43	08/16/13 16:25	1
Cobalt	17		7.0	1.7	ug/L		08/15/13 06:43	08/16/13 16:25	1
Chromium	46		5.0	2.2	ug/L		08/15/13 06:43	08/16/13 16:25	1
Copper	210		25	4.5	ug/L		08/15/13 06:43	08/16/13 16:25	1
Iron	9500		100	81	ug/L		08/15/13 06:43	08/16/13 16:25	1
Manganese	470	B	15	0.41	ug/L		08/15/13 06:43	08/16/13 16:25	1
Nickel	15	J	40	3.2	ug/L		08/15/13 06:43	08/16/13 16:25	1
Lead	210		3.0	1.9	ug/L		08/15/13 06:43	08/16/13 16:25	1
Antimony	58		10	1.8	ug/L		08/15/13 06:43	08/16/13 16:25	1
Selenium	<4.1		5.0	4.1	ug/L		08/15/13 06:43	08/16/13 16:25	1
Titanium	29	J	50	5.3	ug/L		08/15/13 06:43	08/16/13 16:25	1
Thallium	<4.7		10	4.7	ug/L		08/15/13 06:43	08/16/13 16:25	1
Vanadium	2.9	J	7.0	0.64	ug/L		08/15/13 06:43	08/16/13 16:25	1
Zinc	720	B	50	5.0	ug/L		08/15/13 06:43	08/16/13 16:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	J	0.20	0.12	ug/L		08/14/13 09:00	08/14/13 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3700		40	40	mg/L			08/14/13 11:06	1
Total Suspended Solids	140		4.0	4.0	mg/L			08/15/13 09:01	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-13-GR-01

Date Collected: 08/08/13 11:25
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-12

Matrix: Solid
Percent Solids: 98.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**38**	**J**	40	4.6	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Acenaphthylene	<2.1		40	2.1	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Acetophenone	<56		600	56	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Anthracene	**81**		40	4.7	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Atrazine	<55		1200	55	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Benzaldehyde	<72	*	600	72	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Benzo[a]anthracene	**290**		40	3.8	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Benzo[b]fluoranthene	**530**		40	3.6	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Benzo[k]fluoranthene	**150**		40	4.1	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Benzo[g,h,i]perylene	**160**		40	2.1	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Benzo[a]pyrene	**280**		40	3.9	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Butyl benzyl phthalate	<60		420	60	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
1,1'-Biphenyl	<21		300	21	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Bis(2-chloroethoxy)methane	<130		600	130	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Bis(2-chloroethyl)ether	<12		600	12	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Bis(2-ethylhexyl) phthalate	**230**	**J**	420	110	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4-Bromophenyl phenyl ether	<78		300	78	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Caprolactam	<220		2000	220	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Carbazole	<160		300	160	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4-Chloroaniline	<100		910	100	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4-Chloro-3-methylphenol	<130		910	130	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2-Chloronaphthalene	<2.7		300	2.7	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2-Chlorophenol	<49		300	49	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4-Chlorophenyl phenyl ether	<78		300	78	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Chrysene	**420**		40	6.6	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2-Methylnaphthalene	<3.0		40	3.0	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
3 & 4 Methylphenol	<120		2400	120	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Dibenz(a,h)anthracene	**55**		40	4.0	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Dibenzofuran	<4.0		300	4.0	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
3,3'-Dichlorobenzidine	<110		600	110	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,4-Dichlorophenol	<120		910	120	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Diethyl phthalate	<97		420	97	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,4-Dimethylphenol	<120		910	120	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Dimethyl phthalate	<100		420	100	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4,6-Dinitro-2-methylphenol	<56		910	56	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,4-Dinitrophenol	<130		2000	130	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,4-Dinitrotoluene	<100		1200	100	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Di-n-butyl phthalate	<91		420	91	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Di-n-octyl phthalate	<48		420	48	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Fluoranthene	**580**		40	3.3	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Fluorene	**24**	**J**	40	3.2	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Hexachlorobenzene	<13		40	13	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Hexachlorobutadiene	<34		300	34	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Hexachlorocyclopentadiene	<49		2000	49	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Hexachloroethane	<54		300	54	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Indeno[1,2,3-cd]pyrene	**150**		40	2.1	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Isophorone	<78		300	78	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2-Methylphenol	<66		1200	66	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Naphthalene	<4.9		40	4.9	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-13-GR-01

Date Collected: 08/08/13 11:25
Date Received: 08/09/13 08:15

Lab Sample ID: 240-27803-12

Matrix: Solid
Percent Solids: 98.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<55		1200	55	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
3-Nitroaniline	<97		1200	97	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4-Nitroaniline	<160		1200	160	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Nitrobenzene	<13		600	13	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2-Nitrophenol	<50		300	50	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
4-Nitrophenol	<100		2000	100	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
N-Nitrosodi-n-propylamine	<38		300	38	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
bis (2-chloroisopropyl) ether	<57		600	57	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Pentachlorophenol	<55		910	55	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Phenanthrene	**350**		40	4.4	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Phenol	<44		300	44	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Pyrene	**500**		40	2.7	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,4,5-Trichlorophenol	<150		910	150	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,4,6-Trichlorophenol	<54		910	54	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
2,6-Dinitrotoluene	<130		1200	130	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
Pyridine	<21		600	21	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1
1,4-Dichlorobenzene	<120		300	120	ug/Kg	☼	08/17/13 09:02	08/20/13 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*24 - 110*	*08/17/13 09:02*	*08/20/13 11:15*	*1*
2-Fluorophenol (Surr)	*59*		*24 - 110*	*08/17/13 09:02*	*08/20/13 11:15*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 110*	*08/17/13 09:02*	*08/20/13 11:15*	*1*
Nitrobenzene-d5 (Surr)	*54*		*20 - 110*	*08/17/13 09:02*	*08/20/13 11:15*	*1*
Phenol-d5 (Surr)	*60*		*26 - 110*	*08/17/13 09:02*	*08/20/13 11:15*	*1*
Terphenyl-d14 (Surr)	*81*		*36 - 110*	*08/17/13 09:02*	*08/20/13 11:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		200	130	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1221	<98		200	98	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1232	<86		200	86	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1242	<79		200	79	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1248	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1254	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1260	<100		200	100	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1262	<160		200	160	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Aroclor-1268	<86		200	86	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1
Polychlorinated biphenyls, Total	<79		200	79	ug/Kg	☼	08/16/13 08:46	08/20/13 10:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*29 - 151*	*08/16/13 08:46*	*08/20/13 10:06*	*1*
DCB Decachlorobiphenyl	*89*		*14 - 163*	*08/16/13 08:46*	*08/20/13 10:06*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.0022		0.50	0.0022	mg/L		08/20/13 09:46	08/21/13 15:31	1
Arsenic	**0.0036**	**J**	0.50	0.0032	mg/L		08/20/13 09:46	08/21/13 15:31	1
Barium	**0.15**	**J B**	10	0.00067	mg/L		08/20/13 09:46	08/21/13 15:31	1
Cadmium	**0.0026**	**J**	0.10	0.00066	mg/L		08/20/13 09:46	08/21/13 15:31	1
Chromium	**1.1**		0.50	0.0022	mg/L		08/20/13 09:46	08/21/13 15:31	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-13-GR-01

Lab Sample ID: 240-27803-12

Date Collected: 08/08/13 11:25
Matrix: Solid
Date Received: 08/09/13 08:15

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.016	J	0.50	0.0019	mg/L		08/20/13 09:46	08/21/13 15:31	1
Selenium	0.0066	J B	0.25	0.0041	mg/L		08/20/13 09:46	08/21/13 15:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/20/13 12:40	08/21/13 14:29	1

Surrogate Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(24-110)	(24-110)	(10-110)	(20-110)	(26-110)	(36-110)
240-27803-2	SP-07-ISM-01	56	60	49	58	59	82
240-27803-3	SP-07-ISM-02	59	63	51	58	62	79
240-27803-4	SP-07-ISM-03	58	61	52	57	60	79
240-27803-5	SP-08-GR-01	76	32	0 X	67	66	100
240-27803-6	SP-09-GR-01	71	62	73	62	66	103
240-27803-7	SP-10-GR-01	80	78	80	73	78	109
240-27803-8	SP-11-GR-01	76	71	85	70	75	105
240-27803-9	SP-12-GR-01	75	76	74	68	76	104
240-27803-10	SP-14-COM-01	77	78	148 X	67	81	105
240-27803-12	SP-13-GR-01	64	59	44	54	60	81
LCS 240-97891/24-A	Lab Control Sample	81	76	89	71	78	107
LCS 240-97893/19-A	Lab Control Sample	69	63	56	58	62	88
LCS 240-98335/16-A	Lab Control Sample	66	65	61	66	66	86
MB 240-97891/23-A	Method Blank	69	61	45	62	64	107
MB 240-97893/18-A	Method Blank	66	60	39	60	61	88
MB 240-98335/15-A	Method Blank	32	32	18	35	33	45

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(20-110)	(10-110)	(21-110)	(21-110)	(21-110)	(24-110)
240-27803-1	SP-EB-ISM-02	61	58	53	57	58	74
LCS 240-97420/12-A	Lab Control Sample	72	67	77	67	69	92
MB 240-97420/11-A	Method Blank	64	60	49	60	60	82

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(29-151)	(14-163)
240-27803-2	SP-07-ISM-01	74	71

Surrogate Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCX2 (29-151)	DCB2 (14-163)						
240-27803-3	SP-07-ISM-02	75	66						
240-27803-4	SP-07-ISM-03	63	66						
240-27803-5	SP-08-GR-01	65	76						
240-27803-6	SP-09-GR-01	80	90						
240-27803-7	SP-10-GR-01	73	90						
240-27803-8	SP-11-GR-01	75	93						
240-27803-9	SP-12-GR-01	85	94						
240-27803-10	SP-14-COM-01	72	79						
240-27803-12	SP-13-GR-01	84	89						
LCS 240-97762/19-A	Lab Control Sample	73	87						
LCS 240-98363/20-A	Lab Control Sample	83	92						
LCSD 240-97762/20-A	Lab Control Sample Dup	93	102						
LCSD 240-98363/21-A	Lab Control Sample Dup	88	95						
MB 240-97762/18-A	Method Blank	72	87						
MB 240-98363/19-A	Method Blank	97	80						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-97420/11-A
Matrix: Water
Analysis Batch: 97727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.13		1.0	0.13	ug/L		08/14/13 10:41	08/16/13 09:38	1
2-Chloronaphthalene	<0.10		1.0	0.10	ug/L		08/14/13 10:41	08/16/13 09:38	1
2-Chlorophenol	<0.29		1.0	0.29	ug/L		08/14/13 10:41	08/16/13 09:38	1
4-Bromophenyl phenyl ether	<0.22		2.0	0.22	ug/L		08/14/13 10:41	08/16/13 09:38	1
2-Methylnaphthalene	<0.090		0.20	0.090	ug/L		08/14/13 10:41	08/16/13 09:38	1
4-Chloro-3-methylphenol	<0.21		2.0	0.21	ug/L		08/14/13 10:41	08/16/13 09:38	1
4-Chloroaniline	<0.21		2.0	0.21	ug/L		08/14/13 10:41	08/16/13 09:38	1
4-Chlorophenyl phenyl ether	<0.30		2.0	0.30	ug/L		08/14/13 10:41	08/16/13 09:38	1
3,3'-Dichlorobenzidine	<0.37		5.0	0.37	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,4-Dichlorophenol	<0.19		2.0	0.19	ug/L		08/14/13 10:41	08/16/13 09:38	1
Acenaphthene	<0.044		0.20	0.044	ug/L		08/14/13 10:41	08/16/13 09:38	1
Acenaphthylene	<0.048		0.20	0.048	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,4-Dimethylphenol	<0.25		2.0	0.25	ug/L		08/14/13 10:41	08/16/13 09:38	1
Acetophenone	<0.34		1.0	0.34	ug/L		08/14/13 10:41	08/16/13 09:38	1
Anthracene	<0.088		0.20	0.088	ug/L		08/14/13 10:41	08/16/13 09:38	1
4,6-Dinitro-2-methylphenol	<2.4		5.0	2.4	ug/L		08/14/13 10:41	08/16/13 09:38	1
Atrazine	<0.34		1.0	0.34	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,4-Dinitrophenol	<0.32		5.0	0.32	ug/L		08/14/13 10:41	08/16/13 09:38	1
Benzaldehyde	<0.39		1.0	0.39	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,4-Dinitrotoluene	<0.25		5.0	0.25	ug/L		08/14/13 10:41	08/16/13 09:38	1
Benzo[a]anthracene	<0.030		0.20	0.030	ug/L		08/14/13 10:41	08/16/13 09:38	1
Benzo[a]pyrene	<0.051		0.20	0.051	ug/L		08/14/13 10:41	08/16/13 09:38	1
Benzo[b]fluoranthene	<0.039		0.20	0.039	ug/L		08/14/13 10:41	08/16/13 09:38	1
Benzo[g,h,i]perylene	<0.046		0.20	0.046	ug/L		08/14/13 10:41	08/16/13 09:38	1
Benzo[k]fluoranthene	<0.045		0.20	0.045	ug/L		08/14/13 10:41	08/16/13 09:38	1
Bis(2-chloroethoxy)methane	<0.32		1.0	0.32	ug/L		08/14/13 10:41	08/16/13 09:38	1
Bis(2-chloroethyl)ether	<0.10		1.0	0.10	ug/L		08/14/13 10:41	08/16/13 09:38	1
Bis(2-ethylhexyl) phthalate	<0.22		2.0	0.22	ug/L		08/14/13 10:41	08/16/13 09:38	1
Butyl benzyl phthalate	<0.26		2.0	0.26	ug/L		08/14/13 10:41	08/16/13 09:38	1
Caprolactam	<0.20		5.0	0.20	ug/L		08/14/13 10:41	08/16/13 09:38	1
Carbazole	<0.28		1.0	0.28	ug/L		08/14/13 10:41	08/16/13 09:38	1
2-Methylphenol	<0.17		1.0	0.17	ug/L		08/14/13 10:41	08/16/13 09:38	1
Chrysene	<0.050		0.20	0.050	ug/L		08/14/13 10:41	08/16/13 09:38	1
Dibenz(a,h)anthracene	<0.045		0.20	0.045	ug/L		08/14/13 10:41	08/16/13 09:38	1
2-Nitroaniline	<0.21		2.0	0.21	ug/L		08/14/13 10:41	08/16/13 09:38	1
Dibenzofuran	<0.020		1.0	0.020	ug/L		08/14/13 10:41	08/16/13 09:38	1
3-Nitroaniline	<0.28		2.0	0.28	ug/L		08/14/13 10:41	08/16/13 09:38	1
Diethyl phthalate	<0.60		2.0	0.60	ug/L		08/14/13 10:41	08/16/13 09:38	1
4-Nitroaniline	<0.22		2.0	0.22	ug/L		08/14/13 10:41	08/16/13 09:38	1
Dimethyl phthalate	<0.29		2.0	0.29	ug/L		08/14/13 10:41	08/16/13 09:38	1
Di-n-butyl phthalate	<0.67		2.0	0.67	ug/L		08/14/13 10:41	08/16/13 09:38	1
2-Nitrophenol	<0.28		2.0	0.28	ug/L		08/14/13 10:41	08/16/13 09:38	1
Di-n-octyl phthalate	<0.23		2.0	0.23	ug/L		08/14/13 10:41	08/16/13 09:38	1
4-Nitrophenol	<0.29		5.0	0.29	ug/L		08/14/13 10:41	08/16/13 09:38	1
Fluoranthene	<0.045		0.20	0.045	ug/L		08/14/13 10:41	08/16/13 09:38	1
Fluorene	<0.041		0.20	0.041	ug/L		08/14/13 10:41	08/16/13 09:38	1
bis (2-chloroisopropyl) ether	<0.40		1.0	0.40	ug/L		08/14/13 10:41	08/16/13 09:38	1
Hexachlorobenzene	<0.085		0.20	0.085	ug/L		08/14/13 10:41	08/16/13 09:38	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-97420/11-A
Matrix: Water
Analysis Batch: 97727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.27		1.0	0.27	ug/L		08/14/13 10:41	08/16/13 09:38	1
Hexachlorocyclopentadiene	<0.24		10	0.24	ug/L		08/14/13 10:41	08/16/13 09:38	1
Hexachloroethane	<0.19		1.0	0.19	ug/L		08/14/13 10:41	08/16/13 09:38	1
Indeno[1,2,3-cd]pyrene	<0.043		0.20	0.043	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,4,5-Trichlorophenol	<0.30		5.0	0.30	ug/L		08/14/13 10:41	08/16/13 09:38	1
Isophorone	<0.27		1.0	0.27	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,4,6-Trichlorophenol	<0.24		5.0	0.24	ug/L		08/14/13 10:41	08/16/13 09:38	1
Naphthalene	<0.063		0.20	0.063	ug/L		08/14/13 10:41	08/16/13 09:38	1
Nitrobenzene	<0.040		1.0	0.040	ug/L		08/14/13 10:41	08/16/13 09:38	1
N-Nitrosodi-n-propylamine	<0.24		1.0	0.24	ug/L		08/14/13 10:41	08/16/13 09:38	1
Pentachlorophenol	<0.27		5.0	0.27	ug/L		08/14/13 10:41	08/16/13 09:38	1
Phenol	<0.60		1.0	0.60	ug/L		08/14/13 10:41	08/16/13 09:38	1
Phenanthrene	<0.062		0.20	0.062	ug/L		08/14/13 10:41	08/16/13 09:38	1
Pyrene	<0.042		0.20	0.042	ug/L		08/14/13 10:41	08/16/13 09:38	1
2,6-Dinitrotoluene	<0.80		5.0	0.80	ug/L		08/14/13 10:41	08/16/13 09:38	1
3 & 4 Methylphenol	<0.80		2.0	0.80	ug/L		08/14/13 10:41	08/16/13 09:38	1
Pyridine	<0.35		1.0	0.35	ug/L		08/14/13 10:41	08/16/13 09:38	1
1,4-Dichlorobenzene	<0.34		1.0	0.34	ug/L		08/14/13 10:41	08/16/13 09:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*20 - 110*	*08/14/13 10:41*	*08/16/13 09:38*	*1*
2-Fluorophenol (Surr)	*60*		*10 - 110*	*08/14/13 10:41*	*08/16/13 09:38*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*21 - 110*	*08/14/13 10:41*	*08/16/13 09:38*	*1*
Nitrobenzene-d5 (Surr)	*60*		*21 - 110*	*08/14/13 10:41*	*08/16/13 09:38*	*1*
Phenol-d5 (Surr)	*60*		*21 - 110*	*08/14/13 10:41*	*08/16/13 09:38*	*1*
Terphenyl-d14 (Surr)	*82*		*24 - 110*	*08/14/13 10:41*	*08/16/13 09:38*	*1*

Lab Sample ID: LCS 240-97420/12-A
Matrix: Water
Analysis Batch: 97727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	20.0	14.7		ug/L		74	43 - 110
2-Chloronaphthalene	20.0	14.4		ug/L		72	43 - 110
2-Chlorophenol	20.0	14.2		ug/L		71	29 - 110
4-Bromophenyl phenyl ether	20.0	16.0		ug/L		80	45 - 110
2-Methylnaphthalene	20.0	14.2		ug/L		71	45 - 110
4-Chloro-3-methylphenol	20.0	14.6		ug/L		73	52 - 110
4-Chloroaniline	20.0	14.5		ug/L		73	44 - 110
4-Chlorophenyl phenyl ether	20.0	15.7		ug/L		79	47 - 110
3,3'-Dichlorobenzidine	40.0	29.6		ug/L		74	22 - 110
2,4-Dichlorophenol	20.0	14.6		ug/L		73	41 - 110
Acenaphthene	20.0	15.4		ug/L		77	47 - 110
Acenaphthylene	20.0	14.3		ug/L		71	49 - 110
2,4-Dimethylphenol	20.0	14.8		ug/L		74	32 - 110
Acetophenone	20.0	14.6		ug/L		73	46 - 110
Anthracene	20.0	15.9		ug/L		80	52 - 110
4,6-Dinitro-2-methylphenol	40.0	22.3		ug/L		56	31 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-97420/12-A
Matrix: Water
Analysis Batch: 97727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	40.0	30.5		ug/L		76	66 - 126
2,4-Dinitrophenol	40.0	18.2		ug/L		45	10 - 110
Benzaldehyde	40.0	27.0		ug/L		68	38 - 110
2,4-Dinitrotoluene	20.0	17.0		ug/L		85	53 - 110
Benzo[a]anthracene	20.0	16.3		ug/L		81	52 - 110
Benzo[a]pyrene	20.0	15.6		ug/L		78	44 - 110
Benzo[b]fluoranthene	20.0	14.7		ug/L		74	48 - 110
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	50 - 110
Benzo[k]fluoranthene	20.0	17.3		ug/L		86	49 - 110
Bis(2-chloroethoxy)methane	20.0	14.3		ug/L		72	43 - 110
Bis(2-chloroethyl)ether	20.0	13.9		ug/L		70	40 - 110
Bis(2-ethylhexyl) phthalate	20.0	16.5		ug/L		82	39 - 116
Butyl benzyl phthalate	20.0	15.8		ug/L		79	55 - 110
Caprolactam	40.0	33.3		ug/L		83	45 - 111
Carbazole	20.0	16.8		ug/L		84	55 - 110
2-Methylphenol	20.0	13.4		ug/L		67	42 - 110
Chrysene	20.0	16.8		ug/L		84	55 - 110
Dibenz(a,h)anthracene	20.0	16.6		ug/L		83	49 - 110
2-Nitroaniline	20.0	14.3		ug/L		71	54 - 110
Dibenzofuran	20.0	15.3		ug/L		77	51 - 110
3-Nitroaniline	20.0	15.8		ug/L		79	53 - 110
Diethyl phthalate	20.0	16.0		ug/L		80	58 - 110
4-Nitroaniline	20.0	16.7		ug/L		83	54 - 110
Dimethyl phthalate	20.0	16.1		ug/L		80	57 - 110
Di-n-butyl phthalate	20.0	15.9		ug/L		79	57 - 110
2-Nitrophenol	20.0	14.0		ug/L		70	40 - 110
Di-n-octyl phthalate	20.0	14.4		ug/L		72	40 - 110
4-Nitrophenol	40.0	29.6		ug/L		74	33 - 112
Fluoranthene	20.0	16.1		ug/L		81	54 - 110
Fluorene	20.0	15.8		ug/L		79	52 - 110
bis (2-chloroisopropyl) ether	20.0	12.7		ug/L		63	37 - 110
Hexachlorobenzene	20.0	15.4		ug/L		77	50 - 110
Hexachlorobutadiene	20.0	11.3		ug/L		56	33 - 110
Hexachlorocyclopentadiene	20.0	2.04	J	ug/L		10	10 - 110
Hexachloroethane	20.0	10.5		ug/L		53	35 - 110
Indeno[1,2,3-cd]pyrene	20.0	17.2		ug/L		86	50 - 110
2,4,5-Trichlorophenol	20.0	14.4		ug/L		72	48 - 110
Isophorone	20.0	12.7		ug/L		63	49 - 110
2,4,6-Trichlorophenol	20.0	14.4		ug/L		72	45 - 110
Naphthalene	20.0	13.8		ug/L		69	44 - 110
Nitrobenzene	20.0	13.7		ug/L		69	42 - 110
N-Nitrosodi-n-propylamine	20.0	13.2		ug/L		66	47 - 110
Pentachlorophenol	40.0	22.6		ug/L		56	18 - 110
Phenol	20.0	13.9		ug/L		70	33 - 110
Phenanthrene	20.0	15.8		ug/L		79	53 - 110
Pyrene	20.0	17.1		ug/L		85	52 - 110
2,6-Dinitrotoluene	20.0	16.5		ug/L		83	54 - 110
3 & 4 Methylphenol	20.0	14.0		ug/L		70	44 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-97420/12-A
Matrix: Water
Analysis Batch: 97727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	20.0	2.26		ug/L		11	10 - 110
1,4-Dichlorobenzene	20.0	12.3		ug/L		61	39 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*20 - 110*
2-Fluorophenol (Surr)	*67*		*10 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*21 - 110*
Nitrobenzene-d5 (Surr)	*67*		*21 - 110*
Phenol-d5 (Surr)	*69*		*21 - 110*
Terphenyl-d14 (Surr)	*92*		*24 - 110*

Lab Sample ID: MB 240-97891/23-A
Matrix: Solid
Analysis Batch: 98119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<3.5		50	3.5	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2-Chloronaphthalene	<0.45		50	0.45	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2-Chlorophenol	<8.2		50	8.2	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4-Bromophenyl phenyl ether	<13		50	13	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2-Methylnaphthalene	<0.50		6.7	0.50	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4-Chloro-3-methylphenol	<21		150	21	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4-Chloroaniline	<17		150	17	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4-Chlorophenyl phenyl ether	<13		50	13	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
3,3'-Dichlorobenzidine	<18		100	18	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,4-Dichlorophenol	<20		150	20	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Acenaphthene	<0.76		6.7	0.76	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Acenaphthylene	<0.35		6.7	0.35	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,4-Dimethylphenol	<20		150	20	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Acetophenone	<9.2		100	9.2	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Anthracene	<0.78		6.7	0.78	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4,6-Dinitro-2-methylphenol	<9.2		150	9.2	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Atrazine	<9.1		200	9.1	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,4-Dinitrophenol	<21		330	21	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Benzaldehyde	<12		100	12	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,4-Dinitrotoluene	<17		200	17	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Benzo[a]anthracene	<0.63		6.7	0.63	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Benzo[a]pyrene	<0.64		6.7	0.64	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Benzo[b]fluoranthene	<0.59		6.7	0.59	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Benzo[g,h,i]perylene	<0.35		6.7	0.35	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Benzo[k]fluoranthene	<0.68		6.7	0.68	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Bis(2-chloroethoxy)methane	<22		100	22	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Bis(2-chloroethyl)ether	<2.0		100	2.0	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Bis(2-ethylhexyl) phthalate	39.3	J	70	19	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Butyl benzyl phthalate	<10		70	10	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Caprolactam	<37		330	37	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Carbazole	<27		50	27	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2-Methylphenol	<11		200	11	ug/Kg		08/17/13 08:57	08/20/13 10:18	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-97891/23-A
Matrix: Solid
Analysis Batch: 98119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<1.1		6.7	1.1	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Dibenz(a,h)anthracene	<0.66		6.7	0.66	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2-Nitroaniline	<9.1		200	9.1	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Dibenzofuran	<0.66		50	0.66	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
3-Nitroaniline	<16		200	16	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Diethyl phthalate	<16		70	16	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4-Nitroaniline	<26		200	26	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Dimethyl phthalate	<17		70	17	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Di-n-butyl phthalate	26.0	J	70	15	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2-Nitrophenol	<8.3		50	8.3	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Di-n-octyl phthalate	<7.9		70	7.9	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
4-Nitrophenol	<17		330	17	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Fluoranthene	<0.55		6.7	0.55	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Fluorene	<0.53		6.7	0.53	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
bis (2-chloroisopropyl) ether	<9.5		100	9.5	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Hexachlorobenzene	<2.1		6.7	2.1	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Hexachlorobutadiene	<5.6		50	5.6	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Hexachlorocyclopentadiene	<8.1		330	8.1	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Hexachloroethane	<9.0		50	9.0	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Indeno[1,2,3-cd]pyrene	<0.35		6.7	0.35	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,4,5-Trichlorophenol	<25		150	25	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Isophorone	<13		50	13	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,4,6-Trichlorophenol	<8.9		150	8.9	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Naphthalene	<0.82		6.7	0.82	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Nitrobenzene	<2.2		100	2.2	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
N-Nitrosodi-n-propylamine	<6.3		50	6.3	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Pentachlorophenol	<9.1		150	9.1	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Phenol	<7.3		50	7.3	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Phenanthrene	<0.73		6.7	0.73	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Pyrene	<0.44		6.7	0.44	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
2,6-Dinitrotoluene	<21		200	21	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
3 & 4 Methylphenol	<20		400	20	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
Pyridine	<3.5		100	3.5	ug/Kg		08/17/13 08:57	08/20/13 10:18	1
1,4-Dichlorobenzene	<20		50	20	ug/Kg		08/17/13 08:57	08/20/13 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*24 - 110*	*08/17/13 08:57*	*08/20/13 10:18*	*1*
2-Fluorophenol (Surr)	*61*		*24 - 110*	*08/17/13 08:57*	*08/20/13 10:18*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*10 - 110*	*08/17/13 08:57*	*08/20/13 10:18*	*1*
Nitrobenzene-d5 (Surr)	*62*		*20 - 110*	*08/17/13 08:57*	*08/20/13 10:18*	*1*
Phenol-d5 (Surr)	*64*		*26 - 110*	*08/17/13 08:57*	*08/20/13 10:18*	*1*
Terphenyl-d14 (Surr)	*107*		*36 - 110*	*08/17/13 08:57*	*08/20/13 10:18*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-97891/24-A
Matrix: Solid
Analysis Batch: 98119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	667	531		ug/Kg		80	35 - 110
2-Chloronaphthalene	667	527		ug/Kg		79	32 - 110
2-Chlorophenol	667	527		ug/Kg		79	37 - 110
4-Bromophenyl phenyl ether	667	635		ug/Kg		95	39 - 110
2-Methylnaphthalene	667	558		ug/Kg		84	36 - 110
4-Chloro-3-methylphenol	667	553		ug/Kg		83	48 - 110
4-Chloroaniline	667	429		ug/Kg		64	30 - 110
4-Chlorophenyl phenyl ether	667	575		ug/Kg		86	40 - 110
3,3'-Dichlorobenzidine	1330	777		ug/Kg		58	28 - 110
2,4-Dichlorophenol	667	578		ug/Kg		87	39 - 110
Acenaphthene	667	541		ug/Kg		81	38 - 110
Acenaphthylene	667	542		ug/Kg		81	40 - 110
2,4-Dimethylphenol	667	561		ug/Kg		84	29 - 110
Acetophenone	667	399		ug/Kg		60	40 - 110
Anthracene	667	602		ug/Kg		90	48 - 110
4,6-Dinitro-2-methylphenol	1330	1100		ug/Kg		83	10 - 110
Atrazine	1330	1250		ug/Kg		94	66 - 127
2,4-Dinitrophenol	1330	1030		ug/Kg		77	10 - 110
Benzaldehyde	1330	220	*	ug/Kg		16	32 - 110
2,4-Dinitrotoluene	667	587		ug/Kg		88	48 - 110
Benzo[a]anthracene	667	606		ug/Kg		91	50 - 110
Benzo[a]pyrene	667	618		ug/Kg		93	44 - 110
Benzo[b]fluoranthene	667	614		ug/Kg		92	43 - 110
Benzo[g,h,i]perylene	667	688		ug/Kg		103	51 - 110
Benzo[k]fluoranthene	667	610		ug/Kg		92	38 - 105
Bis(2-chloroethoxy)methane	667	500		ug/Kg		75	32 - 110
Bis(2-chloroethyl)ether	667	454		ug/Kg		68	34 - 110
Bis(2-ethylhexyl) phthalate	667	583		ug/Kg		87	50 - 110
Butyl benzyl phthalate	667	548		ug/Kg		82	51 - 110
Caprolactam	1330	1400		ug/Kg		105	44 - 114
Carbazole	667	659		ug/Kg		99	50 - 110
2-Methylphenol	667	495		ug/Kg		74	41 - 110
Chrysene	667	602		ug/Kg		90	50 - 110
Dibenz(a,h)anthracene	667	672		ug/Kg		101	51 - 110
2-Nitroaniline	667	471		ug/Kg		71	45 - 110
Dibenzofuran	667	549		ug/Kg		82	43 - 110
3-Nitroaniline	667	568		ug/Kg		85	44 - 110
Diethyl phthalate	667	566		ug/Kg		85	52 - 110
4-Nitroaniline	667	614		ug/Kg		92	48 - 110
Dimethyl phthalate	667	580		ug/Kg		87	50 - 110
Di-n-butyl phthalate	667	574		ug/Kg		86	51 - 110
2-Nitrophenol	667	601		ug/Kg		90	34 - 110
Di-n-octyl phthalate	667	535		ug/Kg		80	48 - 110
4-Nitrophenol	1330	832		ug/Kg		62	28 - 110
Fluoranthene	667	654		ug/Kg		98	51 - 110
Fluorene	667	575		ug/Kg		86	46 - 110
bis (2-chloroisopropyl) ether	667	439		ug/Kg		66	29 - 110
Hexachlorobenzene	667	618		ug/Kg		93	43 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-97891/24-A
Matrix: Solid
Analysis Batch: 98119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	667	539		ug/Kg		81	29 - 110
Hexachlorocyclopentadiene	667	359		ug/Kg		54	12 - 110
Hexachloroethane	667	455		ug/Kg		68	30 - 110
Indeno[1,2,3-cd]pyrene	667	681		ug/Kg		102	50 - 110
2,4,5-Trichlorophenol	667	582		ug/Kg		87	25 - 110
Isophorone	667	456		ug/Kg		68	36 - 110
2,4,6-Trichlorophenol	667	557		ug/Kg		84	12 - 110
Naphthalene	667	523		ug/Kg		78	36 - 110
Nitrobenzene	667	457		ug/Kg		69	32 - 110
N-Nitrosodi-n-propylamine	667	444		ug/Kg		67	38 - 110
Pentachlorophenol	1330	821		ug/Kg		62	10 - 110
Phenol	667	497		ug/Kg		75	38 - 110
Phenanthrene	667	576		ug/Kg		86	49 - 110
Pyrene	667	612		ug/Kg		92	49 - 110
2,6-Dinitrotoluene	667	630		ug/Kg		95	45 - 110
3 & 4 Methylphenol	667	515		ug/Kg		77	40 - 110
Pyridine	667	353		ug/Kg		53	22 - 110
1,4-Dichlorobenzene	667	509		ug/Kg		76	33 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*24 - 110*
2-Fluorophenol (Surr)	*76*		*24 - 110*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 110*
Nitrobenzene-d5 (Surr)	*71*		*20 - 110*
Phenol-d5 (Surr)	*78*		*26 - 110*
Terphenyl-d14 (Surr)	*107*		*36 - 110*

Lab Sample ID: MB 240-97893/18-A
Matrix: Solid
Analysis Batch: 98101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<3.5		50	3.5	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2-Chloronaphthalene	<0.45		50	0.45	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2-Chlorophenol	<8.2		50	8.2	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4-Bromophenyl phenyl ether	<13		50	13	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2-Methylnaphthalene	<0.50		6.7	0.50	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4-Chloro-3-methylphenol	<21		150	21	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4-Chloroaniline	<17		150	17	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4-Chlorophenyl phenyl ether	<13		50	13	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
3,3'-Dichlorobenzidine	<18		100	18	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,4-Dichlorophenol	<20		150	20	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Acenaphthene	<0.76		6.7	0.76	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Acenaphthylene	<0.35		6.7	0.35	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,4-Dimethylphenol	<20		150	20	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Acetophenone	<9.2		100	9.2	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Anthracene	<0.78		6.7	0.78	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4,6-Dinitro-2-methylphenol	<9.2		150	9.2	ug/Kg		08/17/13 09:02	08/20/13 08:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-97893/18-A
Matrix: Solid
Analysis Batch: 98101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<9.1		200	9.1	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,4-Dinitrophenol	<21		330	21	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Benzaldehyde	<12		100	12	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,4-Dinitrotoluene	<17		200	17	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Benzo[a]anthracene	<0.63		6.7	0.63	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Benzo[a]pyrene	<0.64		6.7	0.64	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Benzo[b]fluoranthene	<0.59		6.7	0.59	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Benzo[g,h,i]perylene	<0.35		6.7	0.35	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Benzo[k]fluoranthene	<0.68		6.7	0.68	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Bis(2-chloroethoxy)methane	<22		100	22	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Bis(2-chloroethyl)ether	<2.0		100	2.0	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Bis(2-ethylhexyl) phthalate	<19		70	19	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Butyl benzyl phthalate	<10		70	10	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Caprolactam	<37		330	37	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Carbazole	<27		50	27	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2-Methylphenol	<11		200	11	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Chrysene	<1.1		6.7	1.1	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Dibenz(a,h)anthracene	<0.66		6.7	0.66	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2-Nitroaniline	<9.1		200	9.1	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Dibenzofuran	<0.66		50	0.66	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
3-Nitroaniline	<16		200	16	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Diethyl phthalate	<16		70	16	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4-Nitroaniline	<26		200	26	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Dimethyl phthalate	<17		70	17	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Di-n-butyl phthalate	<15		70	15	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2-Nitrophenol	<8.3		50	8.3	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Di-n-octyl phthalate	<7.9		70	7.9	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
4-Nitrophenol	<17		330	17	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Fluoranthene	<0.55		6.7	0.55	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Fluorene	<0.53		6.7	0.53	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
bis (2-chloroisopropyl) ether	<9.5		100	9.5	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Hexachlorobenzene	<2.1		6.7	2.1	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Hexachlorobutadiene	<5.6		50	5.6	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Hexachlorocyclopentadiene	<8.1		330	8.1	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Hexachloroethane	<9.0		50	9.0	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Indeno[1,2,3-cd]pyrene	<0.35		6.7	0.35	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,4,5-Trichlorophenol	<25		150	25	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Isophorone	<13		50	13	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,4,6-Trichlorophenol	<8.9		150	8.9	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Naphthalene	<0.82		6.7	0.82	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Nitrobenzene	<2.2		100	2.2	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
N-Nitrosodi-n-propylamine	<6.3		50	6.3	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Pentachlorophenol	<9.1		150	9.1	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Phenol	<7.3		50	7.3	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Phenanthrene	<0.73		6.7	0.73	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
Pyrene	<0.44		6.7	0.44	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
2,6-Dinitrotoluene	<21		200	21	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
3 & 4 Methylphenol	<20		400	20	ug/Kg		08/17/13 09:02	08/20/13 08:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-97893/18-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98101 — **Prep Batch: 97893**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<3.5		100	3.5	ug/Kg		08/17/13 09:02	08/20/13 08:00	1
1,4-Dichlorobenzene	<20		50	20	ug/Kg		08/17/13 09:02	08/20/13 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*24 - 110*	*08/17/13 09:02*	*08/20/13 08:00*	*1*
2-Fluorophenol (Surr)	*60*		*24 - 110*	*08/17/13 09:02*	*08/20/13 08:00*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*10 - 110*	*08/17/13 09:02*	*08/20/13 08:00*	*1*
Nitrobenzene-d5 (Surr)	*60*		*20 - 110*	*08/17/13 09:02*	*08/20/13 08:00*	*1*
Phenol-d5 (Surr)	*61*		*26 - 110*	*08/17/13 09:02*	*08/20/13 08:00*	*1*
Terphenyl-d14 (Surr)	*88*		*36 - 110*	*08/17/13 09:02*	*08/20/13 08:00*	*1*

Lab Sample ID: LCS 240-97893/19-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98101 — **Prep Batch: 97893**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	667	478		ug/Kg		72	35 - 110
2-Chloronaphthalene	667	476		ug/Kg		71	32 - 110
2-Chlorophenol	667	441		ug/Kg		66	37 - 110
4-Bromophenyl phenyl ether	667	511		ug/Kg		77	39 - 110
2-Methylnaphthalene	667	447		ug/Kg		67	36 - 110
4-Chloro-3-methylphenol	667	479		ug/Kg		72	48 - 110
4-Chloroaniline	667	404		ug/Kg		61	30 - 110
4-Chlorophenyl phenyl ether	667	494		ug/Kg		74	40 - 110
3,3'-Dichlorobenzidine	1330	853		ug/Kg		64	28 - 110
2,4-Dichlorophenol	667	455		ug/Kg		68	39 - 110
Acenaphthene	667	496		ug/Kg		74	38 - 110
Acenaphthylene	667	470		ug/Kg		71	40 - 110
2,4-Dimethylphenol	667	527		ug/Kg		79	29 - 110
Acetophenone	667	362		ug/Kg		54	40 - 110
Anthracene	667	509		ug/Kg		76	48 - 110
4,6-Dinitro-2-methylphenol	1330	952		ug/Kg		71	10 - 110
Atrazine	1330	1010		ug/Kg		75	66 - 127
2,4-Dinitrophenol	1330	767		ug/Kg		58	10 - 110
Benzaldehyde	1330	184	*	ug/Kg		14	32 - 110
2,4-Dinitrotoluene	667	560		ug/Kg		84	48 - 110
Benzo[a]anthracene	667	540		ug/Kg		81	50 - 110
Benzo[a]pyrene	667	517		ug/Kg		78	44 - 110
Benzo[b]fluoranthene	667	485		ug/Kg		73	43 - 110
Benzo[g,h,i]perylene	667	577		ug/Kg		87	51 - 110
Benzo[k]fluoranthene	667	540		ug/Kg		81	38 - 105
Bis(2-chloroethoxy)methane	667	423		ug/Kg		63	32 - 110
Bis(2-chloroethyl)ether	667	402		ug/Kg		60	34 - 110
Bis(2-ethylhexyl) phthalate	667	542		ug/Kg		81	50 - 110
Butyl benzyl phthalate	667	523		ug/Kg		78	51 - 110
Caprolactam	1330	1100		ug/Kg		83	44 - 114
Carbazole	667	552		ug/Kg		83	50 - 110
2-Methylphenol	667	420		ug/Kg		63	41 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-97893/19-A
Matrix: Solid
Analysis Batch: 98101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	667	547		ug/Kg		82	50 - 110
Dibenz(a,h)anthracene	667	571		ug/Kg		86	51 - 110
2-Nitroaniline	667	465		ug/Kg		70	45 - 110
Dibenzofuran	667	495		ug/Kg		74	43 - 110
3-Nitroaniline	667	487		ug/Kg		73	44 - 110
Diethyl phthalate	667	521		ug/Kg		78	52 - 110
4-Nitroaniline	667	535		ug/Kg		80	48 - 110
Dimethyl phthalate	667	512		ug/Kg		77	50 - 110
Di-n-butyl phthalate	667	530		ug/Kg		79	51 - 110
2-Nitrophenol	667	442		ug/Kg		66	34 - 110
Di-n-octyl phthalate	667	493		ug/Kg		74	48 - 110
4-Nitrophenol	1330	962		ug/Kg		72	28 - 110
Fluoranthene	667	523		ug/Kg		78	51 - 110
Fluorene	667	502		ug/Kg		75	46 - 110
bis (2-chloroisopropyl) ether	667	376		ug/Kg		56	29 - 110
Hexachlorobenzene	667	479		ug/Kg		72	43 - 110
Hexachlorobutadiene	667	432		ug/Kg		65	29 - 110
Hexachlorocyclopentadiene	667	228	J	ug/Kg		34	12 - 110
Hexachloroethane	667	398		ug/Kg		60	30 - 110
Indeno[1,2,3-cd]pyrene	667	584		ug/Kg		88	50 - 110
2,4,5-Trichlorophenol	667	463		ug/Kg		69	25 - 110
Isophorone	667	363		ug/Kg		54	36 - 110
2,4,6-Trichlorophenol	667	401		ug/Kg		60	12 - 110
Naphthalene	667	429		ug/Kg		64	36 - 110
Nitrobenzene	667	401		ug/Kg		60	32 - 110
N-Nitrosodi-n-propylamine	667	384		ug/Kg		58	38 - 110
Pentachlorophenol	1330	550		ug/Kg		41	10 - 110
Phenol	667	442		ug/Kg		66	38 - 110
Phenanthrene	667	502		ug/Kg		75	49 - 110
Pyrene	667	556		ug/Kg		83	49 - 110
2,6-Dinitrotoluene	667	545		ug/Kg		82	45 - 110
3 & 4 Methylphenol	667	432		ug/Kg		65	40 - 110
Pyridine	667	305		ug/Kg		46	22 - 110
1,4-Dichlorobenzene	667	432		ug/Kg		65	33 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*24 - 110*
2-Fluorophenol (Surr)	*63*		*24 - 110*
2,4,6-Tribromophenol (Surr)	*56*		*10 - 110*
Nitrobenzene-d5 (Surr)	*58*		*20 - 110*
Phenol-d5 (Surr)	*62*		*26 - 110*
Terphenyl-d14 (Surr)	*88*		*36 - 110*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-98335/15-A
Matrix: Solid
Analysis Batch: 98646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<3.5		50	3.5	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2-Chloronaphthalene	<0.45		50	0.45	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2-Chlorophenol	<8.2		50	8.2	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4-Bromophenyl phenyl ether	<13		50	13	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2-Methylnaphthalene	<0.50		6.7	0.50	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4-Chloro-3-methylphenol	<21		150	21	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4-Chloroaniline	<17		150	17	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4-Chlorophenyl phenyl ether	<13		50	13	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
3,3'-Dichlorobenzidine	<18		100	18	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,4-Dichlorophenol	<20		150	20	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Acenaphthene	<0.76		6.7	0.76	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Acenaphthylene	<0.35		6.7	0.35	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,4-Dimethylphenol	<20		150	20	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Acetophenone	<9.2		100	9.2	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Anthracene	<0.78		6.7	0.78	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4,6-Dinitro-2-methylphenol	<9.2		150	9.2	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Atrazine	<9.1		200	9.1	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,4-Dinitrophenol	<21		330	21	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Benzaldehyde	<12		100	12	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,4-Dinitrotoluene	<17		200	17	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Benzo[a]anthracene	<0.63		6.7	0.63	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Benzo[a]pyrene	<0.64		6.7	0.64	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Benzo[b]fluoranthene	<0.59		6.7	0.59	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Benzo[g,h,i]perylene	<0.35		6.7	0.35	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Benzo[k]fluoranthene	<0.68		6.7	0.68	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Bis(2-chloroethoxy)methane	<22		100	22	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Bis(2-chloroethyl)ether	<2.0		100	2.0	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Bis(2-ethylhexyl) phthalate	<19		70	19	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Butyl benzyl phthalate	<10		70	10	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Caprolactam	<37		330	37	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Carbazole	<27		50	27	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2-Methylphenol	<11		200	11	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Chrysene	<1.1		6.7	1.1	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Dibenz(a,h)anthracene	<0.66		6.7	0.66	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2-Nitroaniline	<9.1		200	9.1	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Dibenzofuran	<0.66		50	0.66	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
3-Nitroaniline	<16		200	16	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Diethyl phthalate	<16		70	16	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4-Nitroaniline	<26		200	26	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Dimethyl phthalate	<17		70	17	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Di-n-butyl phthalate	<15		70	15	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2-Nitrophenol	<8.3		50	8.3	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Di-n-octyl phthalate	<7.9		70	7.9	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
4-Nitrophenol	<17		330	17	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Fluoranthene	<0.55		6.7	0.55	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Fluorene	<0.53		6.7	0.53	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
bis (2-chloroisopropyl) ether	<9.5		100	9.5	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Hexachlorobenzene	<2.1		6.7	2.1	ug/Kg		08/21/13 09:31	08/23/13 09:57	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-98335/15-A
Matrix: Solid
Analysis Batch: 98646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<5.6		50	5.6	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Hexachlorocyclopentadiene	<8.1		330	8.1	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Hexachloroethane	<9.0		50	9.0	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Indeno[1,2,3-cd]pyrene	<0.35		6.7	0.35	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,4,5-Trichlorophenol	<25		150	25	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Isophorone	<13		50	13	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,4,6-Trichlorophenol	<8.9		150	8.9	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Naphthalene	<0.82		6.7	0.82	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Nitrobenzene	<2.2		100	2.2	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
N-Nitrosodi-n-propylamine	<6.3		50	6.3	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Pentachlorophenol	<9.1		150	9.1	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Phenol	<7.3		50	7.3	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Phenanthrene	<0.73		6.7	0.73	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Pyrene	<0.44		6.7	0.44	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
2,6-Dinitrotoluene	<21		200	21	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
3 & 4 Methylphenol	<20		400	20	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
Pyridine	<3.5		100	3.5	ug/Kg		08/21/13 09:31	08/23/13 09:57	1
1,4-Dichlorobenzene	<20		50	20	ug/Kg		08/21/13 09:31	08/23/13 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*32*		*24 - 110*	*08/21/13 09:31*	*08/23/13 09:57*	*1*
2-Fluorophenol (Surr)	*32*		*24 - 110*	*08/21/13 09:31*	*08/23/13 09:57*	*1*
2,4,6-Tribromophenol (Surr)	*18*		*10 - 110*	*08/21/13 09:31*	*08/23/13 09:57*	*1*
Nitrobenzene-d5 (Surr)	*35*		*20 - 110*	*08/21/13 09:31*	*08/23/13 09:57*	*1*
Phenol-d5 (Surr)	*33*		*26 - 110*	*08/21/13 09:31*	*08/23/13 09:57*	*1*
Terphenyl-d14 (Surr)	*45*		*36 - 110*	*08/21/13 09:31*	*08/23/13 09:57*	*1*

Lab Sample ID: LCS 240-98335/16-A
Matrix: Solid
Analysis Batch: 98646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	667	419		ug/Kg		63	35 - 110
2-Chloronaphthalene	667	416		ug/Kg		62	32 - 110
2-Chlorophenol	667	431		ug/Kg		65	37 - 110
4-Bromophenyl phenyl ether	667	454		ug/Kg		68	39 - 110
2-Methylnaphthalene	667	430		ug/Kg		65	36 - 110
4-Chloro-3-methylphenol	667	472		ug/Kg		71	48 - 110
4-Chloroaniline	667	404		ug/Kg		61	30 - 110
4-Chlorophenyl phenyl ether	667	440		ug/Kg		66	40 - 110
3,3'-Dichlorobenzidine	1330	892		ug/Kg		67	28 - 110
2,4-Dichlorophenol	667	457		ug/Kg		68	39 - 110
Acenaphthene	667	430		ug/Kg		64	38 - 110
Acenaphthylene	667	416		ug/Kg		62	40 - 110
2,4-Dimethylphenol	667	343		ug/Kg		51	29 - 110
Acetophenone	667	424		ug/Kg		64	40 - 110
Anthracene	667	478		ug/Kg		72	48 - 110
4,6-Dinitro-2-methylphenol	1330	793		ug/Kg		59	10 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-98335/16-A
Matrix: Solid
Analysis Batch: 98646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	1330	1050		ug/Kg		78	66 - 127
2,4-Dinitrophenol	1330	725		ug/Kg		54	10 - 110
Benzaldehyde	1330	730		ug/Kg		55	32 - 110
2,4-Dinitrotoluene	667	447		ug/Kg		67	48 - 110
Benzo[a]anthracene	667	487		ug/Kg		73	50 - 110
Benzo[a]pyrene	667	443		ug/Kg		66	44 - 110
Benzo[b]fluoranthene	667	434		ug/Kg		65	43 - 110
Benzo[g,h,i]perylene	667	423		ug/Kg		63	51 - 110
Benzo[k]fluoranthene	667	498		ug/Kg		75	38 - 105
Bis(2-chloroethoxy)methane	667	432		ug/Kg		65	32 - 110
Bis(2-chloroethyl)ether	667	424		ug/Kg		64	34 - 110
Bis(2-ethylhexyl) phthalate	667	531		ug/Kg		80	50 - 110
Butyl benzyl phthalate	667	513		ug/Kg		77	51 - 110
Caprolactam	1330	1090		ug/Kg		82	44 - 114
Carbazole	667	483		ug/Kg		72	50 - 110
2-Methylphenol	667	408		ug/Kg		61	41 - 110
Chrysene	667	484		ug/Kg		73	50 - 110
Dibenz(a,h)anthracene	667	426		ug/Kg		64	51 - 110
2-Nitroaniline	667	469		ug/Kg		70	45 - 110
Dibenzofuran	667	433		ug/Kg		65	43 - 110
3-Nitroaniline	667	432		ug/Kg		65	44 - 110
Diethyl phthalate	667	456		ug/Kg		68	52 - 110
4-Nitroaniline	667	491		ug/Kg		74	48 - 110
Dimethyl phthalate	667	443		ug/Kg		67	50 - 110
Di-n-butyl phthalate	667	505		ug/Kg		76	51 - 110
2-Nitrophenol	667	411		ug/Kg		62	34 - 110
Di-n-octyl phthalate	667	476		ug/Kg		71	48 - 110
4-Nitrophenol	1330	890		ug/Kg		67	28 - 110
Fluoranthene	667	482		ug/Kg		72	51 - 110
Fluorene	667	446		ug/Kg		67	46 - 110
bis (2-chloroisopropyl) ether	667	425		ug/Kg		64	29 - 110
Hexachlorobenzene	667	450		ug/Kg		68	43 - 110
Hexachlorobutadiene	667	412		ug/Kg		62	29 - 110
Hexachlorocyclopentadiene	667	321	J	ug/Kg		48	12 - 110
Hexachloroethane	667	399		ug/Kg		60	30 - 110
Indeno[1,2,3-cd]pyrene	667	421		ug/Kg		63	50 - 110
2,4,5-Trichlorophenol	667	473		ug/Kg		71	25 - 110
Isophorone	667	426		ug/Kg		64	36 - 110
2,4,6-Trichlorophenol	667	452		ug/Kg		68	12 - 110
Naphthalene	667	423		ug/Kg		64	36 - 110
Nitrobenzene	667	436		ug/Kg		65	32 - 110
N-Nitrosodi-n-propylamine	667	420		ug/Kg		63	38 - 110
Pentachlorophenol	1330	759		ug/Kg		57	10 - 110
Phenol	667	428		ug/Kg		64	38 - 110
Phenanthrene	667	458		ug/Kg		69	49 - 110
Pyrene	667	481		ug/Kg		72	49 - 110
2,6-Dinitrotoluene	667	481		ug/Kg		72	45 - 110
3 & 4 Methylphenol	667	425		ug/Kg		64	40 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-98335/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98646 — **Prep Batch: 98335**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	667	317		ug/Kg		48	22 - 110
1,4-Dichlorobenzene	667	407		ug/Kg		61	33 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*24 - 110*
2-Fluorophenol (Surr)	*65*		*24 - 110*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 110*
Nitrobenzene-d5 (Surr)	*66*		*20 - 110*
Phenol-d5 (Surr)	*66*		*26 - 110*
Terphenyl-d14 (Surr)	*86*		*36 - 110*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-97762/18-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98096 — **Prep Batch: 97762**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<21		33	21	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1221	<16		33	16	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1232	<14		33	14	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1242	<13		33	13	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1248	<17		33	17	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1254	<17		33	17	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1260	<17		33	17	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1262	<27		33	27	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Aroclor-1268	<14		33	14	ug/Kg		08/16/13 08:46	08/20/13 08:51	1
Polychlorinated biphenyls, Total	<13		33	13	ug/Kg		08/16/13 08:46	08/20/13 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*29 - 151*	*08/16/13 08:46*	*08/20/13 08:51*	*1*
DCB Decachlorobiphenyl	*87*		*14 - 163*	*08/16/13 08:46*	*08/20/13 08:51*	*1*

Lab Sample ID: LCS 240-97762/19-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98096 — **Prep Batch: 97762**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	333	244		ug/Kg		73	62 - 120
Aroclor-1260	333	275		ug/Kg		83	56 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*29 - 151*
DCB Decachlorobiphenyl	*87*		*14 - 163*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 240-97762/20-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98096 — **Prep Batch: 97762**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016			333	278		ug/Kg		83	62 - 120	13	30
Aroclor-1260			333	331		ug/Kg		99	56 - 122	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*29 - 151*
DCB Decachlorobiphenyl	*102*		*14 - 163*

Lab Sample ID: MB 240-98363/19-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98631 — **Prep Batch: 98363**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<130		200	130	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1221	<96		200	96	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1232	<84		200	84	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1242	<78		200	78	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1248	<100		200	100	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1254	<100		200	100	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1260	<100		200	100	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1262	<160		200	160	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Aroclor-1268	<84		200	84	ug/Kg		08/21/13 10:38	08/23/13 07:44	1
Polychlorinated biphenyls, Total	<78		200	78	ug/Kg		08/21/13 10:38	08/23/13 07:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*29 - 151*	*08/21/13 10:38*	*08/23/13 07:44*	*1*
DCB Decachlorobiphenyl	*80*		*14 - 163*	*08/21/13 10:38*	*08/23/13 07:44*	*1*

Lab Sample ID: LCS 240-98363/20-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98631 — **Prep Batch: 98363**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			2000	1690		ug/Kg		84	62 - 120		
Aroclor-1260			2000	1920		ug/Kg		96	56 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*29 - 151*
DCB Decachlorobiphenyl	*92*		*14 - 163*

Lab Sample ID: LCSD 240-98363/21-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98631 — **Prep Batch: 98363**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016			2000	1760		ug/Kg		88	62 - 120	4	30
Aroclor-1260			2000	1920		ug/Kg		96	56 - 122	0	30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 240-98363/21-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98631 — **Prep Batch: 98363**

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*29 - 151*
DCB Decachlorobiphenyl	*95*		*14 - 163*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-97557/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97888 — **Prep Batch: 97557**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00067		10	0.00067	mg/L		08/15/13 08:50	08/16/13 18:31	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 08:50	08/16/13 18:31	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/15/13 08:50	08/16/13 18:31	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 18:31	1
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 18:31	1
Lead	<0.0019		0.50	0.0019	mg/L		08/15/13 08:50	08/16/13 18:31	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/15/13 08:50	08/16/13 18:31	1

Lab Sample ID: LCS 240-97557/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97888 — **Prep Batch: 97557**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.15	J	mg/L		108	50 - 150
Cadmium	0.0500	0.0519	J	mg/L		104	50 - 150
Arsenic	2.00	2.12		mg/L		106	50 - 150
Chromium	0.200	0.212	J	mg/L		106	50 - 150
Silver	0.0500	0.0534	J	mg/L		107	50 - 150
Lead	0.500	0.517		mg/L		103	50 - 150
Selenium	2.00	2.14		mg/L		107	50 - 150

Lab Sample ID: MB 240-97569/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97889 — **Prep Batch: 97569**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00067		10	0.00067	mg/L		08/15/13 09:03	08/16/13 13:30	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 09:03	08/16/13 13:30	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/15/13 09:03	08/16/13 13:30	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 13:30	1
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 13:30	1
Lead	<0.0019		0.50	0.0019	mg/L		08/15/13 09:03	08/16/13 13:30	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/15/13 09:03	08/16/13 13:30	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-97569/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97889 — **Prep Batch: 97569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.02	J	mg/L		101	50 - 150
Cadmium	0.0500	0.0540	J	mg/L		108	50 - 150
Arsenic	2.00	2.25		mg/L		112	50 - 150
Chromium	0.200	0.213	J	mg/L		106	50 - 150
Silver	0.0500	0.0563	J	mg/L		113	50 - 150
Lead	0.500	0.482	J	mg/L		96	50 - 150
Selenium	2.00	2.24		mg/L		112	50 - 150

Lab Sample ID: MB 240-98147/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98470 — **Prep Batch: 98147**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.000844	J	10	0.00067	mg/L		08/20/13 09:46	08/21/13 15:06	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/20/13 09:46	08/21/13 15:06	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/20/13 09:46	08/21/13 15:06	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/20/13 09:46	08/21/13 15:06	1
Silver	<0.0022		0.50	0.0022	mg/L		08/20/13 09:46	08/21/13 15:06	1
Lead	<0.0019		0.50	0.0019	mg/L		08/20/13 09:46	08/21/13 15:06	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/20/13 09:46	08/21/13 15:06	1

Lab Sample ID: LCS 240-98147/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98470 — **Prep Batch: 98147**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	1.96	J	mg/L		98	50 - 150
Cadmium	0.0500	0.0520	J	mg/L		104	50 - 150
Arsenic	2.00	2.21		mg/L		111	50 - 150
Chromium	0.200	0.196	J	mg/L		98	50 - 150
Silver	0.0500	0.0532	J	mg/L		106	50 - 150
Lead	0.500	0.470	J	mg/L		94	50 - 150
Selenium	2.00	2.20		mg/L		110	50 - 150

Lab Sample ID: LB 240-98435/1-D LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98850 — **Prep Batch: 98516**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00128	J	10	0.00067	mg/L		08/22/13 10:05	08/23/13 17:11	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/22/13 10:05	08/23/13 17:11	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/22/13 10:05	08/23/13 17:11	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:11	1
Silver	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:11	1
Lead	<0.0019		0.50	0.0019	mg/L		08/22/13 10:05	08/23/13 17:11	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/22/13 10:05	08/23/13 17:11	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-98516/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98850 — **Prep Batch: 98516**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00067		10	0.00067	mg/L		08/22/13 10:05	08/23/13 17:23	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/22/13 10:05	08/23/13 17:23	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/22/13 10:05	08/23/13 17:23	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:23	1
Silver	<0.0022		0.50	0.0022	mg/L		08/22/13 10:05	08/23/13 17:23	1
Lead	<0.0019		0.50	0.0019	mg/L		08/22/13 10:05	08/23/13 17:23	1
Selenium	<0.0041		0.25	0.0041	mg/L		08/22/13 10:05	08/23/13 17:23	1

Lab Sample ID: LCS 240-98516/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98850 — **Prep Batch: 98516**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.01	J	mg/L		100	50 - 150
Cadmium	0.0500	0.0524	J	mg/L		105	50 - 150
Arsenic	2.00	2.22		mg/L		111	50 - 150
Chromium	0.200	0.208	J	mg/L		104	50 - 150
Silver	0.0500	0.0554	J	mg/L		111	50 - 150
Lead	0.500	0.482	J	mg/L		96	50 - 150
Selenium	2.00	2.20		mg/L		110	50 - 150

Lab Sample ID: 240-27803-2 MS — **Client Sample ID: SP-07-ISM-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98850 — **Prep Batch: 98516**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.31	J B	50.0	50.6		mg/L		101	50 - 150
Cadmium	0.00098	J	1.00	1.08		mg/L		108	50 - 150
Arsenic	0.0094	J	5.00	5.56		mg/L		111	50 - 150
Chromium	0.033	J	5.00	5.32		mg/L		106	50 - 150
Silver	<0.0022		1.00	1.09	J	mg/L		109	50 - 150
Lead	<0.0019		5.00	5.12		mg/L		102	50 - 150
Selenium	0.0067	J	1.00	1.08	J	mg/L		108	50 - 150

Lab Sample ID: 240-27803-2 MSD — **Client Sample ID: SP-07-ISM-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98850 — **Prep Batch: 98516**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.31	J B	50.0	50.5		mg/L		100	50 - 150	0	20
Cadmium	0.00098	J	1.00	1.06		mg/L		106	50 - 150	2	20
Arsenic	0.0094	J	5.00	5.40		mg/L		108	50 - 150	3	20
Chromium	0.033	J	5.00	5.18		mg/L		103	50 - 150	3	20
Silver	<0.0022		1.00	1.07	J	mg/L		107	50 - 150	2	20
Lead	<0.0019		5.00	4.98		mg/L		100	50 - 150	3	20
Selenium	0.0067	J	1.00	1.06	J	mg/L		106	50 - 150	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-97357/1-A
Matrix: Water
Analysis Batch: 97764

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 97357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<97		200	97	ug/L		08/14/13 08:01	08/15/13 11:12	1
Barium	1.34	J	200	0.67	ug/L		08/14/13 08:01	08/15/13 11:12	1
Cadmium	<0.66		2.0	0.66	ug/L		08/14/13 08:01	08/15/13 11:12	1
Arsenic	<3.2		10	3.2	ug/L		08/14/13 08:01	08/15/13 11:12	1
Cobalt	<1.7		7.0	1.7	ug/L		08/14/13 08:01	08/15/13 11:12	1
Chromium	<2.2		5.0	2.2	ug/L		08/14/13 08:01	08/15/13 11:12	1
Copper	<4.5		25	4.5	ug/L		08/14/13 08:01	08/15/13 11:12	1
Silver	<2.2		5.0	2.2	ug/L		08/14/13 08:01	08/15/13 11:12	1
Iron	<81		100	81	ug/L		08/14/13 08:01	08/15/13 11:12	1
Manganese	0.831	J	15	0.41	ug/L		08/14/13 08:01	08/15/13 11:12	1
Nickel	<3.2		40	3.2	ug/L		08/14/13 08:01	08/15/13 11:12	1
Lead	<1.9		3.0	1.9	ug/L		08/14/13 08:01	08/15/13 11:12	1
Antimony	<1.8		10	1.8	ug/L		08/14/13 08:01	08/15/13 11:12	1
Selenium	<4.1		5.0	4.1	ug/L		08/14/13 08:01	08/15/13 11:12	1
Titanium	<5.3		50	5.3	ug/L		08/14/13 08:01	08/15/13 11:12	1
Thallium	<4.7		10	4.7	ug/L		08/14/13 08:01	08/15/13 11:12	1
Vanadium	2.37	J	7.0	0.64	ug/L		08/14/13 08:01	08/15/13 11:12	1
Zinc	72.2		50	5.0	ug/L		08/14/13 08:01	08/15/13 11:12	1

Lab Sample ID: LCS 240-97357/2-A
Matrix: Water
Analysis Batch: 97764

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 97357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2090		ug/L		105	80 - 120
Barium	2000	2070		ug/L		103	80 - 120
Cadmium	50.0	53.1		ug/L		106	80 - 120
Arsenic	2000	2080		ug/L		104	80 - 120
Cobalt	500	497		ug/L		99	80 - 120
Chromium	200	205		ug/L		103	80 - 120
Copper	250	262		ug/L		105	80 - 120
Silver	50.0	54.8		ug/L		110	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Manganese	500	526		ug/L		105	80 - 120
Nickel	500	503		ug/L		101	80 - 120
Lead	500	493		ug/L		99	80 - 120
Antimony	500	526		ug/L		105	80 - 120
Selenium	2000	2100		ug/L		105	80 - 120
Titanium	1000	1080		ug/L		108	80 - 120
Thallium	2000	2000		ug/L		100	80 - 120
Vanadium	500	515		ug/L		103	80 - 120
Zinc	500	534		ug/L		107	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-97527/1-A
Matrix: Water
Analysis Batch: 97889

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 97527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<97		200	97	ug/L		08/15/13 06:43	08/16/13 14:53	1
Cadmium	<0.66		2.0	0.66	ug/L		08/15/13 06:43	08/16/13 14:53	1
Arsenic	<3.2		10	3.2	ug/L		08/15/13 06:43	08/16/13 14:53	1
Cobalt	<1.7		7.0	1.7	ug/L		08/15/13 06:43	08/16/13 14:53	1
Chromium	<2.2		5.0	2.2	ug/L		08/15/13 06:43	08/16/13 14:53	1
Copper	<4.5		25	4.5	ug/L		08/15/13 06:43	08/16/13 14:53	1
Silver	<2.2		5.0	2.2	ug/L		08/15/13 06:43	08/16/13 14:53	1
Iron	<81		100	81	ug/L		08/15/13 06:43	08/16/13 14:53	1
Manganese	3.35	J	15	0.41	ug/L		08/15/13 06:43	08/16/13 14:53	1
Nickel	<3.2		40	3.2	ug/L		08/15/13 06:43	08/16/13 14:53	1
Lead	<1.9		3.0	1.9	ug/L		08/15/13 06:43	08/16/13 14:53	1
Antimony	<1.8		10	1.8	ug/L		08/15/13 06:43	08/16/13 14:53	1
Selenium	<4.1		5.0	4.1	ug/L		08/15/13 06:43	08/16/13 14:53	1
Titanium	<5.3		50	5.3	ug/L		08/15/13 06:43	08/16/13 14:53	1
Thallium	<4.7		10	4.7	ug/L		08/15/13 06:43	08/16/13 14:53	1
Vanadium	<0.64		7.0	0.64	ug/L		08/15/13 06:43	08/16/13 14:53	1
Zinc	72.8		50	5.0	ug/L		08/15/13 06:43	08/16/13 14:53	1

Lab Sample ID: LCS 240-97527/2-A
Matrix: Water
Analysis Batch: 97889

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 97527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2090		ug/L		105	80 - 120
Cadmium	50.0	53.5		ug/L		107	80 - 120
Arsenic	2000	2160		ug/L		108	80 - 120
Cobalt	500	515		ug/L		103	80 - 120
Chromium	200	211		ug/L		105	80 - 120
Copper	250	265		ug/L		106	80 - 120
Silver	50.0	54.6		ug/L		109	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Manganese	500	536		ug/L		107	80 - 120
Nickel	500	516		ug/L		103	80 - 120
Lead	500	513		ug/L		103	80 - 120
Antimony	500	534		ug/L		107	80 - 120
Selenium	2000	2160		ug/L		108	80 - 120
Titanium	1000	1080		ug/L		108	80 - 120
Thallium	2000	2090		ug/L		104	80 - 120
Vanadium	500	521		ug/L		104	80 - 120
Zinc	500	535		ug/L		107	80 - 120

Lab Sample ID: LB 240-97474/1-C LB
Matrix: Solid
Analysis Batch: 97888

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 97557

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00201	J	10	0.00067	mg/L		08/15/13 08:50	08/16/13 18:25	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 08:50	08/16/13 18:25	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 240-97474/1-C LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 97888 — **Prep Batch: 97557**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0032		0.50	0.0032	mg/L		08/15/13 08:50	08/16/13 18:25	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 18:25	1
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 08:50	08/16/13 18:25	1
Lead	<0.0019		0.50	0.0019	mg/L		08/15/13 08:50	08/16/13 18:25	1
Selenium	0.00549	J	0.25	0.0041	mg/L		08/15/13 08:50	08/16/13 18:25	1

Lab Sample ID: 240-27803-5 MS — **Client Sample ID: SP-08-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 97888 — **Prep Batch: 97557**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.78	J B	50.0	51.9		mg/L		102	50 - 150
Cadmium	<0.00066		1.00	1.01		mg/L		101	50 - 150
Arsenic	0.0040	J	5.00	5.28		mg/L		105	50 - 150
Chromium	<0.0022		5.00	5.09		mg/L		102	50 - 150
Silver	<0.0022		1.00	1.06	J	mg/L		106	50 - 150
Lead	<0.0019		5.00	5.05		mg/L		101	50 - 150
Selenium	0.011	J B	1.00	1.06	J	mg/L		105	50 - 150

Lab Sample ID: 240-27803-5 MSD — **Client Sample ID: SP-08-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 97888 — **Prep Batch: 97557**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.78	J B	50.0	51.7		mg/L		102	50 - 150	1	20
Cadmium	<0.00066		1.00	1.01		mg/L		101	50 - 150	0	20
Arsenic	0.0040	J	5.00	5.26		mg/L		105	50 - 150	0	20
Chromium	<0.0022		5.00	5.09		mg/L		102	50 - 150	0	20
Silver	<0.0022		1.00	1.06	J	mg/L		106	50 - 150	0	20
Lead	<0.0019		5.00	5.01		mg/L		100	50 - 150	1	20
Selenium	0.011	J B	1.00	1.05	J	mg/L		104	50 - 150	1	20

Lab Sample ID: LB 240-97470/1-D LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 97889 — **Prep Batch: 97569**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00180	J	10	0.00067	mg/L		08/15/13 09:03	08/16/13 13:26	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/15/13 09:03	08/16/13 13:26	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/15/13 09:03	08/16/13 13:26	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 13:26	1
Silver	<0.0022		0.50	0.0022	mg/L		08/15/13 09:03	08/16/13 13:26	1
Lead	<0.0019		0.50	0.0019	mg/L		08/15/13 09:03	08/16/13 13:26	1
Selenium	0.00523	J	0.25	0.0041	mg/L		08/15/13 09:03	08/16/13 13:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-27803-6 MS — **Client Sample ID: SP-09-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 97889 — **Prep Batch: 97569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.055	J B	50.0	49.4	J	mg/L		99	50 - 150
Cadmium	0.0020	J	1.00	1.04		mg/L		103	50 - 150
Arsenic	0.0032	J	5.00	5.30		mg/L		106	50 - 150
Chromium	0.039	J	5.00	5.21		mg/L		103	50 - 150
Silver	<0.0022		1.00	1.05	J	mg/L		105	50 - 150
Lead	0.038	J	5.00	4.99		mg/L		99	50 - 150
Selenium	<0.0041		1.00	1.05	J	mg/L		105	50 - 150

Lab Sample ID: 240-27803-6 MSD — **Client Sample ID: SP-09-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 97889 — **Prep Batch: 97569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.055	J B	50.0	49.8	J	mg/L		99	50 - 150	1	20
Cadmium	0.0020	J	1.00	1.05		mg/L		105	50 - 150	1	20
Arsenic	0.0032	J	5.00	5.33		mg/L		107	50 - 150	0	20
Chromium	0.039	J	5.00	5.26		mg/L		104	50 - 150	1	20
Silver	<0.0022		1.00	1.06	J	mg/L		106	50 - 150	1	20
Lead	0.038	J	5.00	5.02		mg/L		100	50 - 150	1	20
Selenium	<0.0041		1.00	1.05	J	mg/L		105	50 - 150	0	20

Lab Sample ID: LB 240-98069/1-D LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98470 — **Prep Batch: 98147**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00175	J	10	0.00067	mg/L		08/20/13 09:46	08/21/13 15:02	1
Cadmium	<0.00066		0.10	0.00066	mg/L		08/20/13 09:46	08/21/13 15:02	1
Arsenic	<0.0032		0.50	0.0032	mg/L		08/20/13 09:46	08/21/13 15:02	1
Chromium	<0.0022		0.50	0.0022	mg/L		08/20/13 09:46	08/21/13 15:02	1
Silver	<0.0022		0.50	0.0022	mg/L		08/20/13 09:46	08/21/13 15:02	1
Lead	<0.0019		0.50	0.0019	mg/L		08/20/13 09:46	08/21/13 15:02	1
Selenium	0.00418	J	0.25	0.0041	mg/L		08/20/13 09:46	08/21/13 15:02	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-97360/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97481 — **Prep Batch: 97360**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.12		0.20	0.12	ug/L		08/14/13 09:00	08/14/13 12:07	1

Lab Sample ID: LCS 240-97360/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97481 — **Prep Batch: 97360**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.40		ug/L		108	81 - 123

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 240-97566/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98073 — **Prep Batch: 97566**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 13:39	1

Lab Sample ID: LCS 240-97566/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98073 — **Prep Batch: 97566**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00457		mg/L		91	50 - 150

Lab Sample ID: MB 240-97571/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98073 — **Prep Batch: 97571**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 11:27	1

Lab Sample ID: LCS 240-97571/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98073 — **Prep Batch: 97571**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00433		mg/L		87	50 - 150

Lab Sample ID: MB 240-98152/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98498 — **Prep Batch: 98152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/20/13 12:40	08/21/13 14:18	1

Lab Sample ID: LCS 240-98152/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98498 — **Prep Batch: 98152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00469		mg/L		94	50 - 150

Lab Sample ID: LB 240-98435/1-E LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98746 — **Prep Batch: 98517**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/22/13 12:40	08/23/13 13:02	1

Lab Sample ID: MB 240-98517/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98746 — **Prep Batch: 98517**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/22/13 12:40	08/23/13 13:04	1

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Lab Sample ID: LCS 240-98517/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98746 — **Prep Batch: 98517**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00500	0.00480		mg/L		96	50 - 150		

Lab Sample ID: 240-27803-2 MS — **Client Sample ID: SP-07-ISM-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98746 — **Prep Batch: 98517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00012		0.00500	0.00495		mg/L		99	50 - 150		

Lab Sample ID: 240-27803-2 MSD — **Client Sample ID: SP-07-ISM-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98746 — **Prep Batch: 98517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00012		0.00500	0.00472		mg/L		94	50 - 150	5	20

Lab Sample ID: LB 240-97474/1-D LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98073 — **Prep Batch: 97566**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 13:37	1

Lab Sample ID: 240-27803-5 MS — **Client Sample ID: SP-08-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98073 — **Prep Batch: 97566**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00012		0.00500	0.00470		mg/L		94	50 - 150		

Lab Sample ID: 240-27803-5 MSD — **Client Sample ID: SP-08-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98073 — **Prep Batch: 97566**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00012		0.00500	0.00462		mg/L		92	50 - 150	2	20

Lab Sample ID: LB 240-97470/1-E LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98073 — **Prep Batch: 97571**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/15/13 13:40	08/19/13 11:26	1

Lab Sample ID: 240-27803-6 MS — **Client Sample ID: SP-09-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98073 — **Prep Batch: 97571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00012		0.00500	0.00432		mg/L		86	50 - 150		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-27803-6 MSD — **Client Sample ID: SP-09-GR-01**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98073 — **Prep Batch: 97571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00012		0.00500	0.00448		mg/L		90	50 - 150	4	20

Lab Sample ID: LB 240-98069/1-E LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 98498 — **Prep Batch: 98152**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00012		0.0020	0.00012	mg/L		08/20/13 12:40	08/21/13 14:16	1

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

Lab Sample ID: MB 240-97430/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/14/13 11:06	1

Lab Sample ID: LCS 240-97430/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	470	420		mg/L		89	88 - 110

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

Lab Sample ID: MB 240-97568/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0	4.0	mg/L			08/15/13 09:01	1

Lab Sample ID: LCS 240-97568/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 97568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	29.0	26.0		mg/L		90	73 - 113

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

GC/MS Semi VOA

Prep Batch: 97420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-1	SP-EB-ISM-02	Total/NA	Water	3520C	
LCS 240-97420/12-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-97420/11-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 97727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-1	SP-EB-ISM-02	Total/NA	Water	8270C	97420
LCS 240-97420/12-A	Lab Control Sample	Total/NA	Water	8270C	97420
MB 240-97420/11-A	Method Blank	Total/NA	Water	8270C	97420

Prep Batch: 97891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	Total/NA	Solid	3540C	
240-27803-6	SP-09-GR-01	Total/NA	Solid	3540C	
240-27803-7	SP-10-GR-01	Total/NA	Solid	3540C	
240-27803-8	SP-11-GR-01	Total/NA	Solid	3540C	
240-27803-9	SP-12-GR-01	Total/NA	Solid	3540C	
240-27803-10	SP-14-COM-01	Total/NA	Solid	3540C	
LCS 240-97891/24-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-97891/23-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 97893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	Total/NA	Solid	3540C	
LCS 240-97893/19-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-97893/18-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 98101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	Total/NA	Solid	8270C	97893
LCS 240-97893/19-A	Lab Control Sample	Total/NA	Solid	8270C	97893
MB 240-97893/18-A	Method Blank	Total/NA	Solid	8270C	97893

Analysis Batch: 98119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	Total/NA	Solid	8270C	97891
240-27803-6	SP-09-GR-01	Total/NA	Solid	8270C	97891
240-27803-7	SP-10-GR-01	Total/NA	Solid	8270C	97891
240-27803-8	SP-11-GR-01	Total/NA	Solid	8270C	97891
240-27803-9	SP-12-GR-01	Total/NA	Solid	8270C	97891
240-27803-10	SP-14-COM-01	Total/NA	Solid	8270C	97891
LCS 240-97891/24-A	Lab Control Sample	Total/NA	Solid	8270C	97891
MB 240-97891/23-A	Method Blank	Total/NA	Solid	8270C	97891

ISM Prep Batch: 98325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	Increment, Prep	
240-27803-3	SP-07-ISM-02	Total/NA	Solid	Increment, Prep	
240-27803-4	SP-07-ISM-03	Total/NA	Solid	Increment, Prep	

GC/MS Semi VOA (Continued)

Prep Batch: 98335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	3540C	98325
240-27803-3	SP-07-ISM-02	Total/NA	Solid	3540C	98325
240-27803-4	SP-07-ISM-03	Total/NA	Solid	3540C	98325
LCS 240-98335/16-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-98335/15-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 98646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	8270C	98335
240-27803-3	SP-07-ISM-02	Total/NA	Solid	8270C	98335
240-27803-4	SP-07-ISM-03	Total/NA	Solid	8270C	98335
LCS 240-98335/16-A	Lab Control Sample	Total/NA	Solid	8270C	98335
MB 240-98335/15-A	Method Blank	Total/NA	Solid	8270C	98335

GC Semi VOA

Prep Batch: 97762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	Total/NA	Solid	3540C	
240-27803-6	SP-09-GR-01	Total/NA	Solid	3540C	
240-27803-7	SP-10-GR-01	Total/NA	Solid	3540C	
240-27803-8	SP-11-GR-01	Total/NA	Solid	3540C	
240-27803-9	SP-12-GR-01	Total/NA	Solid	3540C	
240-27803-10	SP-14-COM-01	Total/NA	Solid	3540C	
240-27803-12	SP-13-GR-01	Total/NA	Solid	3540C	
LCS 240-97762/19-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 240-97762/20-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
MB 240-97762/18-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 98096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-6	SP-09-GR-01	Total/NA	Solid	8082	97762
240-27803-7	SP-10-GR-01	Total/NA	Solid	8082	97762
240-27803-8	SP-11-GR-01	Total/NA	Solid	8082	97762
240-27803-9	SP-12-GR-01	Total/NA	Solid	8082	97762
240-27803-10	SP-14-COM-01	Total/NA	Solid	8082	97762
240-27803-12	SP-13-GR-01	Total/NA	Solid	8082	97762
LCS 240-97762/19-A	Lab Control Sample	Total/NA	Solid	8082	97762
LCSD 240-97762/20-A	Lab Control Sample Dup	Total/NA	Solid	8082	97762
MB 240-97762/18-A	Method Blank	Total/NA	Solid	8082	97762

ISM Prep Batch: 98325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	Increment, Prep	
240-27803-3	SP-07-ISM-02	Total/NA	Solid	Increment, Prep	
240-27803-4	SP-07-ISM-03	Total/NA	Solid	Increment, Prep	

Analysis Batch: 98353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	Total/NA	Solid	8082	97762

GC Semi VOA (Continued)

Prep Batch: 98363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	3540C	98325
240-27803-3	SP-07-ISM-02	Total/NA	Solid	3540C	98325
240-27803-4	SP-07-ISM-03	Total/NA	Solid	3540C	98325
LCS 240-98363/20-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 240-98363/21-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
MB 240-98363/19-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 98631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	8082	98363
240-27803-3	SP-07-ISM-02	Total/NA	Solid	8082	98363
240-27803-4	SP-07-ISM-03	Total/NA	Solid	8082	98363
LCS 240-98363/20-A	Lab Control Sample	Total/NA	Solid	8082	98363
LCSD 240-98363/21-A	Lab Control Sample Dup	Total/NA	Solid	8082	98363
MB 240-98363/19-A	Method Blank	Total/NA	Solid	8082	98363

Metals

Prep Batch: 97357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-1	SP-EB-ISM-02	Total Recoverable	Water	3005A	
240-27803-11	SP-IDW-GR-01	Total Recoverable	Water	3005A	
LCS 240-97357/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-97357/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 97360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-1	SP-EB-ISM-02	Total/NA	Water	7470A	
240-27803-11	SP-IDW-GR-01	Total/NA	Water	7470A	
LCS 240-97360/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-97360/1-A	Method Blank	Total/NA	Water	7470A	

Leach Batch: 97470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-6	SP-09-GR-01	TCLP	Solid	1311	
240-27803-6 MS	SP-09-GR-01	TCLP	Solid	1311	
240-27803-6 MSD	SP-09-GR-01	TCLP	Solid	1311	
240-27803-7	SP-10-GR-01	TCLP	Solid	1311	
240-27803-8	SP-11-GR-01	TCLP	Solid	1311	
240-27803-9	SP-12-GR-01	TCLP	Solid	1311	
LB 240-97470/1-D LB	Method Blank	TCLP	Solid	1311	
LB 240-97470/1-E LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 97474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	TCLP	Solid	1311	
240-27803-5 MS	SP-08-GR-01	TCLP	Solid	1311	
240-27803-5 MSD	SP-08-GR-01	TCLP	Solid	1311	
240-27803-10	SP-14-COM-01	TCLP	Solid	1311	
LB 240-97474/1-C LB	Method Blank	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 97474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-97474/1-D LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 97481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-1	SP-EB-ISM-02	Total/NA	Water	7470A	97360
240-27803-11	SP-IDW-GR-01	Total/NA	Water	7470A	97360
LCS 240-97360/2-A	Lab Control Sample	Total/NA	Water	7470A	97360
MB 240-97360/1-A	Method Blank	Total/NA	Water	7470A	97360

Filtration Batch: 97526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-11	SP-IDW-GR-01	Dissolved	Water	FILTRATION	

Prep Batch: 97527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-11	SP-IDW-GR-01	Dissolved	Water	3005A	97526
LCS 240-97527/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-97527/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 97557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	TCLP	Solid	3010A	97474
240-27803-5 MS	SP-08-GR-01	TCLP	Solid	3010A	97474
240-27803-5 MSD	SP-08-GR-01	TCLP	Solid	3010A	97474
240-27803-10	SP-14-COM-01	TCLP	Solid	3010A	97474
LB 240-97474/1-C LB	Method Blank	TCLP	Solid	3010A	97474
LCS 240-97557/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-97557/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 97566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	TCLP	Solid	7470A	97474
240-27803-5 MS	SP-08-GR-01	TCLP	Solid	7470A	97474
240-27803-5 MSD	SP-08-GR-01	TCLP	Solid	7470A	97474
240-27803-10	SP-14-COM-01	TCLP	Solid	7470A	97474
LB 240-97474/1-D LB	Method Blank	TCLP	Solid	7470A	97474
LCS 240-97566/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-97566/2-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 97569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-6	SP-09-GR-01	TCLP	Solid	3010A	97470
240-27803-6 MS	SP-09-GR-01	TCLP	Solid	3010A	97470
240-27803-6 MSD	SP-09-GR-01	TCLP	Solid	3010A	97470
240-27803-7	SP-10-GR-01	TCLP	Solid	3010A	97470
240-27803-8	SP-11-GR-01	TCLP	Solid	3010A	97470
240-27803-9	SP-12-GR-01	TCLP	Solid	3010A	97470
LB 240-97470/1-D LB	Method Blank	TCLP	Solid	3010A	97470
LCS 240-97569/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-97569/2-A	Method Blank	Total/NA	Solid	3010A	

Metals (Continued)

Prep Batch: 97571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-6	SP-09-GR-01	TCLP	Solid	7470A	97470
240-27803-6 MS	SP-09-GR-01	TCLP	Solid	7470A	97470
240-27803-6 MSD	SP-09-GR-01	TCLP	Solid	7470A	97470
240-27803-7	SP-10-GR-01	TCLP	Solid	7470A	97470
240-27803-8	SP-11-GR-01	TCLP	Solid	7470A	97470
240-27803-9	SP-12-GR-01	TCLP	Solid	7470A	97470
LB 240-97470/1-E LB	Method Blank	TCLP	Solid	7470A	97470
LCS 240-97571/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-97571/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 97764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-1	SP-EB-ISM-02	Total Recoverable	Water	6010B	97357
240-27803-11	SP-IDW-GR-01	Total Recoverable	Water	6010B	97357
LCS 240-97357/2-A	Lab Control Sample	Total Recoverable	Water	6010B	97357
MB 240-97357/1-A	Method Blank	Total Recoverable	Water	6010B	97357

Analysis Batch: 97888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	TCLP	Solid	6010B	97557
240-27803-5 MS	SP-08-GR-01	TCLP	Solid	6010B	97557
240-27803-5 MSD	SP-08-GR-01	TCLP	Solid	6010B	97557
240-27803-10	SP-14-COM-01	TCLP	Solid	6010B	97557
LB 240-97474/1-C LB	Method Blank	TCLP	Solid	6010B	97557
LCS 240-97557/3-A	Lab Control Sample	Total/NA	Solid	6010B	97557
MB 240-97557/2-A	Method Blank	Total/NA	Solid	6010B	97557

Analysis Batch: 97889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-6	SP-09-GR-01	TCLP	Solid	6010B	97569
240-27803-6 MS	SP-09-GR-01	TCLP	Solid	6010B	97569
240-27803-6 MSD	SP-09-GR-01	TCLP	Solid	6010B	97569
240-27803-7	SP-10-GR-01	TCLP	Solid	6010B	97569
240-27803-8	SP-11-GR-01	TCLP	Solid	6010B	97569
240-27803-9	SP-12-GR-01	TCLP	Solid	6010B	97569
240-27803-11	SP-IDW-GR-01	Dissolved	Water	6010B	97527
LB 240-97470/1-D LB	Method Blank	TCLP	Solid	6010B	97569
LCS 240-97527/2-A	Lab Control Sample	Total Recoverable	Water	6010B	97527
LCS 240-97569/3-A	Lab Control Sample	Total/NA	Solid	6010B	97569
MB 240-97527/1-A	Method Blank	Total Recoverable	Water	6010B	97527
MB 240-97569/2-A	Method Blank	Total/NA	Solid	6010B	97569

Leach Batch: 98069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	TCLP	Solid	1311	
LB 240-98069/1-D LB	Method Blank	TCLP	Solid	1311	
LB 240-98069/1-E LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 98073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5	SP-08-GR-01	TCLP	Solid	7470A	97566

Metals (Continued)

Analysis Batch: 98073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-5 MS	SP-08-GR-01	TCLP	Solid	7470A	97566
240-27803-5 MSD	SP-08-GR-01	TCLP	Solid	7470A	97566
240-27803-6	SP-09-GR-01	TCLP	Solid	7470A	97571
240-27803-6 MS	SP-09-GR-01	TCLP	Solid	7470A	97571
240-27803-6 MSD	SP-09-GR-01	TCLP	Solid	7470A	97571
240-27803-7	SP-10-GR-01	TCLP	Solid	7470A	97571
240-27803-8	SP-11-GR-01	TCLP	Solid	7470A	97571
240-27803-9	SP-12-GR-01	TCLP	Solid	7470A	97571
240-27803-10	SP-14-COM-01	TCLP	Solid	7470A	97566
LB 240-97470/1-E LB	Method Blank	TCLP	Solid	7470A	97571
LB 240-97474/1-D LB	Method Blank	TCLP	Solid	7470A	97566
LCS 240-97566/3-A	Lab Control Sample	Total/NA	Solid	7470A	97566
LCS 240-97571/3-A	Lab Control Sample	Total/NA	Solid	7470A	97571
MB 240-97566/2-A	Method Blank	Total/NA	Solid	7470A	97566
MB 240-97571/2-A	Method Blank	Total/NA	Solid	7470A	97571

Prep Batch: 98147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	TCLP	Solid	3010A	98069
LB 240-98069/1-D LB	Method Blank	TCLP	Solid	3010A	98069
LCS 240-98147/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-98147/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 98152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	TCLP	Solid	7470A	98069
LB 240-98069/1-E LB	Method Blank	TCLP	Solid	7470A	98069
LCS 240-98152/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-98152/2-A	Method Blank	Total/NA	Solid	7470A	

ISM Prep Batch: 98325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	Increment, Prep	
240-27803-2 MS	SP-07-ISM-01	Total/NA	Solid	Increment, Prep	
240-27803-2 MSD	SP-07-ISM-01	Total/NA	Solid	Increment, Prep	
240-27803-3	SP-07-ISM-02	Total/NA	Solid	Increment, Prep	
240-27803-4	SP-07-ISM-03	Total/NA	Solid	Increment, Prep	

Leach Batch: 98435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	1311	98325
240-27803-2 MS	SP-07-ISM-01	Total/NA	Solid	1311	98325
240-27803-2 MSD	SP-07-ISM-01	Total/NA	Solid	1311	98325
240-27803-3	SP-07-ISM-02	Total/NA	Solid	1311	98325
240-27803-4	SP-07-ISM-03	Total/NA	Solid	1311	98325
LB 240-98435/1-D LB	Method Blank	Total/NA	Solid	1311	
LB 240-98435/1-E LB	Method Blank	Total/NA	Solid	1311	

Analysis Batch: 98470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	TCLP	Solid	6010B	98147

Metals (Continued)

Analysis Batch: 98470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-98069/1-D LB	Method Blank	TCLP	Solid	6010B	98147
LCS 240-98147/3-A	Lab Control Sample	Total/NA	Solid	6010B	98147
MB 240-98147/2-A	Method Blank	Total/NA	Solid	6010B	98147

Analysis Batch: 98498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-12	SP-13-GR-01	TCLP	Solid	7470A	98152
LB 240-98069/1-E LB	Method Blank	TCLP	Solid	7470A	98152
LCS 240-98152/3-A	Lab Control Sample	Total/NA	Solid	7470A	98152
MB 240-98152/2-A	Method Blank	Total/NA	Solid	7470A	98152

Prep Batch: 98516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	3010A	98435
240-27803-2 MS	SP-07-ISM-01	Total/NA	Solid	3010A	98435
240-27803-2 MSD	SP-07-ISM-01	Total/NA	Solid	3010A	98435
240-27803-3	SP-07-ISM-02	Total/NA	Solid	3010A	98435
240-27803-4	SP-07-ISM-03	Total/NA	Solid	3010A	98435
LB 240-98435/1-D LB	Method Blank	Total/NA	Solid	3010A	98435
LCS 240-98516/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-98516/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 98517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	7470A	98435
240-27803-2 MS	SP-07-ISM-01	Total/NA	Solid	7470A	98435
240-27803-2 MSD	SP-07-ISM-01	Total/NA	Solid	7470A	98435
240-27803-3	SP-07-ISM-02	Total/NA	Solid	7470A	98435
240-27803-4	SP-07-ISM-03	Total/NA	Solid	7470A	98435
LB 240-98435/1-E LB	Method Blank	Total/NA	Solid	7470A	98435
LCS 240-98517/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-98517/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 98746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	7470A	98517
240-27803-2 MS	SP-07-ISM-01	Total/NA	Solid	7470A	98517
240-27803-2 MSD	SP-07-ISM-01	Total/NA	Solid	7470A	98517
240-27803-3	SP-07-ISM-02	Total/NA	Solid	7470A	98517
240-27803-4	SP-07-ISM-03	Total/NA	Solid	7470A	98517
LB 240-98435/1-E LB	Method Blank	Total/NA	Solid	7470A	98517
LCS 240-98517/3-A	Lab Control Sample	Total/NA	Solid	7470A	98517
MB 240-98517/2-A	Method Blank	Total/NA	Solid	7470A	98517

Analysis Batch: 98850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	6010B	98516
240-27803-2 MS	SP-07-ISM-01	Total/NA	Solid	6010B	98516
240-27803-2 MSD	SP-07-ISM-01	Total/NA	Solid	6010B	98516
240-27803-3	SP-07-ISM-02	Total/NA	Solid	6010B	98516
240-27803-4	SP-07-ISM-03	Total/NA	Solid	6010B	98516

Metals (Continued)

Analysis Batch: 98850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-98435/1-D LB	Method Blank	Total/NA	Solid	6010B	98516
LCS 240-98516/3-A	Lab Control Sample	Total/NA	Solid	6010B	98516
MB 240-98516/2-A	Method Blank	Total/NA	Solid	6010B	98516

General Chemistry

Analysis Batch: 97430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-11	SP-IDW-GR-01	Total/NA	Water	SM 2540C	
LCS 240-97430/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-97430/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 97568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-11	SP-IDW-GR-01	Total/NA	Water	SM 2540D	
LCS 240-97568/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 240-97568/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 98382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-27803-2	SP-07-ISM-01	Total/NA	Solid	Moisture	
240-27803-3	SP-07-ISM-02	Total/NA	Solid	Moisture	
240-27803-4	SP-07-ISM-03	Total/NA	Solid	Moisture	
240-27803-5	SP-08-GR-01	Total/NA	Solid	Moisture	
240-27803-6	SP-09-GR-01	Total/NA	Solid	Moisture	
240-27803-7	SP-10-GR-01	Total/NA	Solid	Moisture	
240-27803-8	SP-11-GR-01	Total/NA	Solid	Moisture	
240-27803-9	SP-12-GR-01	Total/NA	Solid	Moisture	
240-27803-10	SP-14-COM-01	Total/NA	Solid	Moisture	
240-27803-10 DU	SP-14-COM-01	Total/NA	Solid	Moisture	
240-27803-12	SP-13-GR-01	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-EB-ISM-02

Lab Sample ID: 240-27803-1
Date Collected: 08/07/13 16:50
Matrix: Water
Date Received: 08/09/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			97420	08/14/13 10:41	MPM	TAL CAN
Total/NA	Analysis	8270C		1	97727	08/16/13 10:22	TMH	TAL CAN
Total/NA	Prep	7470A			97360	08/14/13 09:00	LPM	TAL CAN
Total/NA	Analysis	7470A		1	97481	08/14/13 12:27	ADS	TAL CAN
Total Recoverable	Prep	3005A			97357	08/14/13 08:01	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	97764	08/15/13 12:14	RKT	TAL CAN

Client Sample ID: SP-07-ISM-01

Lab Sample ID: 240-27803-2
Date Collected: 08/07/13 15:31
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			98335	08/21/13 10:33	MPM	TAL CAN
Total/NA	Analysis	8270C		1	98646	08/23/13 10:40	TMH	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			98363	08/21/13 10:38	AKC	TAL CAN
Total/NA	Analysis	8082		1	98631	08/23/13 08:16	HMB	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Leach	1311			98435	08/21/13 16:00	JS1	TAL CAN
Total/NA	Prep	7470A			98517	08/22/13 12:40	DEE	TAL CAN
Total/NA	Analysis	7470A		1	98746	08/23/13 13:07	ADS	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Leach	1311			98435	08/21/13 16:00	JS1	TAL CAN
Total/NA	Prep	3010A			98516	08/22/13 10:05	DEE	TAL CAN
Total/NA	Analysis	6010B		1	98850	08/23/13 17:31	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-07-ISM-02

Lab Sample ID: 240-27803-3
Date Collected: 08/07/13 16:30
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			98335	08/21/13 10:33	MPM	TAL CAN
Total/NA	Analysis	8270C		1	98646	08/23/13 11:02	TMH	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			98363	08/21/13 10:38	AKC	TAL CAN
Total/NA	Analysis	8082		1	98631	08/23/13 08:32	HMB	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Leach	1311			98435	08/21/13 16:00	JS1	TAL CAN
Total/NA	Prep	7470A			98517	08/22/13 12:40	DEE	TAL CAN
Total/NA	Analysis	7470A		1	98746	08/23/13 13:11	ADS	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-07-ISM-02

Lab Sample ID: 240-27803-3
Date Collected: 08/07/13 16:30
Matrix: Solid
Date Received: 08/09/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	1311			98435	08/21/13 16:00	JS1	TAL CAN
Total/NA	Prep	3010A			98516	08/22/13 10:05	DEE	TAL CAN
Total/NA	Analysis	6010B		1	98850	08/23/13 17:48	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-07-ISM-03

Lab Sample ID: 240-27803-4
Date Collected: 08/07/13 14:40
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			98335	08/21/13 10:33	MPM	TAL CAN
Total/NA	Analysis	8270C		1	98646	08/23/13 11:24	TMH	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Prep	3540C			98363	08/21/13 10:38	AKC	TAL CAN
Total/NA	Analysis	8082		1	98631	08/23/13 08:48	HMB	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Leach	1311			98435	08/21/13 16:00	JS1	TAL CAN
Total/NA	Prep	7470A			98517	08/22/13 12:40	DEE	TAL CAN
Total/NA	Analysis	7470A		1	98746	08/23/13 13:12	ADS	TAL CAN
Total/NA	ISM Prep	Increment, Prep			98325	08/09/13 10:00	DRJ	TAL CAN
Total/NA	Leach	1311			98435	08/21/13 16:00	JS1	TAL CAN
Total/NA	Prep	3010A			98516	08/22/13 10:05	DEE	TAL CAN
Total/NA	Analysis	6010B		1	98850	08/23/13 17:52	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-08-GR-01

Lab Sample ID: 240-27803-5
Date Collected: 08/08/13 09:40
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97891	08/17/13 08:57	CSC	TAL CAN
Total/NA	Analysis	8270C		4	98119	08/20/13 20:19	JMG	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		1	98353	08/21/13 12:22	HMB	TAL CAN
TCLP	Leach	1311			97474	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			97557	08/15/13 08:50	LPM	TAL CAN
TCLP	Analysis	6010B		1	97888	08/16/13 18:55	NJT	TAL CAN
TCLP	Leach	1311			97474	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			97566	08/15/13 13:40	LPM	TAL CAN
TCLP	Analysis	7470A		1	98073	08/19/13 13:42	ADS	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-09-GR-01

Lab Sample ID: 240-27803-6
Date Collected: 08/08/13 09:55
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97891	08/17/13 08:57	CSC	TAL CAN
Total/NA	Analysis	8270C		1	98119	08/20/13 19:29	JMG	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		1	98096	08/20/13 08:22	HMB	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			97569	08/15/13 09:03	LPM	TAL CAN
TCLP	Analysis	6010B		1	97889	08/16/13 13:46	RKT	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			97571	08/15/13 13:40	LPM	TAL CAN
TCLP	Analysis	7470A		1	98073	08/19/13 11:30	ADS	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-10-GR-01

Lab Sample ID: 240-27803-7
Date Collected: 08/08/13 10:23
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97891	08/17/13 08:57	CSC	TAL CAN
Total/NA	Analysis	8270C		1	98119	08/20/13 18:39	JMG	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		1	98096	08/20/13 08:37	HMB	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			97569	08/15/13 09:03	LPM	TAL CAN
TCLP	Analysis	6010B		1	97889	08/16/13 14:07	RKT	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			97571	08/15/13 13:40	LPM	TAL CAN
TCLP	Analysis	7470A		1	98073	08/19/13 11:35	ADS	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-11-GR-01

Lab Sample ID: 240-27803-8
Date Collected: 08/08/13 10:35
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97891	08/17/13 08:57	CSC	TAL CAN
Total/NA	Analysis	8270C		1	98119	08/20/13 18:14	JMG	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		1	98096	08/20/13 09:21	HMB	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			97569	08/15/13 09:03	LPM	TAL CAN
TCLP	Analysis	6010B		1	97889	08/16/13 14:11	RKT	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			97571	08/15/13 13:40	LPM	TAL CAN
TCLP	Analysis	7470A		1	98073	08/19/13 11:37	ADS	TAL CAN

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-11-GR-01 — Lab Sample ID: 240-27803-8

Date Collected: 08/08/13 10:35 — **Matrix: Solid**
Date Received: 08/09/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-12-GR-01 — Lab Sample ID: 240-27803-9

Date Collected: 08/08/13 10:56 — **Matrix: Solid**
Date Received: 08/09/13 08:15 — **Percent Solids: 96.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97891	08/17/13 08:57	CSC	TAL CAN
Total/NA	Analysis	8270C		1	98119	08/20/13 19:04	JMG	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		1	98096	08/20/13 09:36	HMB	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			97569	08/15/13 09:03	LPM	TAL CAN
TCLP	Analysis	6010B		1	97889	08/16/13 14:15	RKT	TAL CAN
TCLP	Leach	1311			97470	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			97571	08/15/13 13:40	LPM	TAL CAN
TCLP	Analysis	7470A		1	98073	08/19/13 11:38	ADS	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-14-COM-01 — Lab Sample ID: 240-27803-10

Date Collected: 08/08/13 12:46 — **Matrix: Solid**
Date Received: 08/09/13 08:15 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97891	08/17/13 08:57	CSC	TAL CAN
Total/NA	Analysis	8270C		20	98119	08/20/13 19:54	JMG	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		2	98096	08/20/13 09:51	HMB	TAL CAN
TCLP	Leach	1311			97474	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			97557	08/15/13 08:50	LPM	TAL CAN
TCLP	Analysis	6010B		1	97888	08/16/13 19:19	NJT	TAL CAN
TCLP	Leach	1311			97474	08/14/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			97566	08/15/13 13:40	LPM	TAL CAN
TCLP	Analysis	7470A		1	98073	08/19/13 13:49	ADS	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	TAL CAN

Client Sample ID: SP-IDW-GR-01 — Lab Sample ID: 240-27803-11

Date Collected: 08/08/13 14:05 — **Matrix: Water**
Date Received: 08/09/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			97360	08/14/13 09:00	LPM	TAL CAN
Total/NA	Analysis	7470A		1	97481	08/14/13 12:28	ADS	TAL CAN

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Client Sample ID: SP-IDW-GR-01

Lab Sample ID: 240-27803-11

Date Collected: 08/08/13 14:05
Matrix: Water
Date Received: 08/09/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			97357	08/14/13 08:01	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	97764	08/15/13 12:18	RKT	TAL CAN
Dissolved	Filtration	FILTRATION			97526	08/15/13 06:40	LPM	TAL CAN
Dissolved	Prep	3005A			97527	08/15/13 06:43	LPM	TAL CAN
Dissolved	Analysis	6010B		1	97889	08/16/13 16:25	RKT	TAL CAN
Total/NA	Analysis	SM 2540C		1	97430	08/14/13 11:06	KMG	TAL CAN
Total/NA	Analysis	SM 2540D		1	97568	08/15/13 09:01	KMG	TAL CAN

Client Sample ID: SP-13-GR-01

Lab Sample ID: 240-27803-12

Date Collected: 08/08/13 11:25
Matrix: Solid
Date Received: 08/09/13 08:15
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			97893	08/17/13 09:02	CSC	TAL CAN
Total/NA	Analysis	8270C		1	98101	08/20/13 11:15	TMH	TAL CAN
Total/NA	Prep	3540C			97762	08/16/13 08:46	CSC	TAL CAN
Total/NA	Analysis	8082		1	98096	08/20/13 10:06	HMB	TAL CAN
TCLP	Leach	1311			98069	08/19/13 14:00	JS1	TAL CAN
TCLP	Prep	3010A			98147	08/20/13 09:46	DEE	TAL CAN
TCLP	Analysis	6010B		1	98470	08/21/13 15:31	RKT	TAL CAN
TCLP	Leach	1311			98069	08/19/13 14:00	JS1	TAL CAN
TCLP	Prep	7470A			98152	08/20/13 12:40	DEE	TAL CAN
TCLP	Analysis	7470A		1	98498	08/21/13 14:29	ADS	TAL CAN
Total/NA	Analysis	Moisture		1	98382	08/21/13 11:57	NJE	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 - Pile Sampling - 12393309.300

TestAmerica Job ID: 240-27803-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-13 *
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-31-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
Wisconsin	State Program	5	999518190	08-31-13

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