

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Bob Ireson
Golder Associates Inc.
1335 Dublin Road
Suite 126-D
Columbus Ohio 43215

Generated 11/23/2022 9:38:30 AM

JOB DESCRIPTION

Former Satralloy Site - Industrial SWPPP

JOB NUMBER

240-176329-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	9
QC Sample Results	19
QC Association Summary	22
Lab Chronicle	25
Certification Summary	28
Chain of Custody	29
Appendix	33



Definitions/Glossary

Client: Golder Associates Inc.

Job ID: 240-176329-1

Project/Site: Former Satralloy Site - Industrial SWPPP

Qualifiers

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 240-176329-1

Job ID: 240-176329-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176329-1

Receipt

The samples were received on 11/12/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Metals

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

General Chemistry

Method 3500_CR_B: The following samples were diluted due to the nature of the sample matrix: ISWP-005 (GC-05D) (240-176329-5) and ISWP-007 (GC-09D) (240-176329-7). Elevated reporting limits (RLs) are provided.

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

Method Summary

Client: Golder Associates Inc.

Job ID: 240-176329-1

Project/Site: Former Satralloy Site - Industrial SWPPP

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Golder Associates Inc.

Job ID: 240-176329-1

Project/Site: Former Satralloy Site - Industrial SWPPP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176329-1	FD	Water	11/11/22 00:00	11/12/22 08:00
240-176329-2	DS01	Water	11/11/22 10:20	11/12/22 08:00
240-176329-3	ISWP-001 (GC-01D)	Water	11/11/22 10:40	11/12/22 08:00
240-176329-4	ISWP-002 (GC-02D)	Water	11/11/22 10:58	11/12/22 08:00
240-176329-5	ISWP-005 (GC-05D)	Water	11/11/22 11:10	11/12/22 08:00
240-176329-6	ISWP-006 (GC-06D)	Water	11/11/22 11:20	11/12/22 08:00
240-176329-7	ISWP-007 (GC-09D)	Water	11/11/22 11:35	11/12/22 08:00
240-176329-8	ISWP-011 (SC-01D)	Water	11/11/22 12:15	11/12/22 08:00
240-176329-9	ISWP-012 (SC-02D)	Water	11/11/22 12:05	11/12/22 08:00
240-176329-10	US01	Water	11/11/22 12:30	11/12/22 08:00

Detection Summary

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

Job ID: 240-176329-1

Client Sample ID: FD

Lab Sample ID: 240-176329-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	3.7	J	5.0	2.5	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	850		11	8.2	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	18		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: DS01

Lab Sample ID: 240-176329-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	4.1	J	5.0	2.5	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	820		12	9.1	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	17		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP-001 (GC-01D)

Lab Sample ID: 240-176329-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	5.7		5.0	2.5	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	390		16	13	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	13		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP-002 (GC-02D)

Lab Sample ID: 240-176329-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	4.9	J	5.0	2.5	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	180		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	14		4.1	1.0	mg/L	1		SM 2540D	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP-005 (GC-05D)

Lab Sample ID: 240-176329-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	200		5.0	2.5	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.066	J	0.10	0.035	mg/L	5		3500-Cr B-2009	Total/NA
Total Dissolved Solids	240		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	45		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP-006 (GC-06D)

Lab Sample ID: 240-176329-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	35		5.0	2.5	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	170		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	26		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

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

Job ID: 240-176329-1

Client Sample ID: ISWP-007 (GC-09D)

Lab Sample ID: 240-176329-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	180		5.0	2.5	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.060	J	0.10	0.035	mg/L	5		3500-Cr B-2009	Total/NA
Total Dissolved Solids	140		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	130		10	2.6	mg/L	1		SM 2540D	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP-011 (SC-01D)

Lab Sample ID: 240-176329-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	77		5.0	2.5	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.063		0.020	0.0070	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	210		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	25		4.4	1.1	mg/L	1		SM 2540D	Total/NA
pH	9.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP-012 (SC-02D)

Lab Sample ID: 240-176329-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	84		5.0	2.5	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.076		0.020	0.0070	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	290		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	20		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	11.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: US01

Lab Sample ID: 240-176329-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	550		10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	18		4.0	1.0	mg/L	1		SM 2540D	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: FD

Lab Sample ID: 240-176329-1

Date Collected: 11/11/22 00:00

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	3.7	J	5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	<0.0070		0.020	0.0070	mg/L			11/11/22 19:09	1
Total Dissolved Solids (SM 2540C)	850		11	8.2	mg/L			11/17/22 09:44	1
Total Suspended Solids (SM 2540D)	18		4.0	1.0	mg/L			11/16/22 08:14	1
pH (SM 4500 H+ B)	8.3	HF	0.1	0.1	SU			11/16/22 21:03	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: DS01

Lab Sample ID: 240-176329-2

Date Collected: 11/11/22 10:20

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	4.1	J	5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	<0.0070		0.020	0.0070	mg/L			11/11/22 18:53	1
Total Dissolved Solids (SM 2540C)	820		12	9.1	mg/L			11/17/22 09:44	1
Total Suspended Solids (SM 2540D)	17		4.0	1.0	mg/L			11/16/22 08:14	1
pH (SM 4500 H+ B)	8.3	HF	0.1	0.1	SU			11/16/22 21:06	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-001 (GC-01D)

Lab Sample ID: 240-176329-3

Date Collected: 11/11/22 10:40

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.7		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	<0.0070		0.020	0.0070	mg/L			11/11/22 18:50	1
Total Dissolved Solids (SM 2540C)	390		16	13	mg/L			11/17/22 09:44	1
Total Suspended Solids (SM 2540D)	13		4.0	1.0	mg/L			11/16/22 08:14	1
pH (SM 4500 H+ B)	8.0	HF	0.1	0.1	SU			11/16/22 21:07	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-002 (GC-02D)

Lab Sample ID: 240-176329-4

Date Collected: 11/11/22 10:58

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	4.9	J	5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	<0.0070		0.020	0.0070	mg/L			11/11/22 18:44	1
Total Dissolved Solids (SM 2540C)	180		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	14		4.1	1.0	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	7.8	HF	0.1	0.1	SU			11/16/22 21:10	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-005 (GC-05D)

Lab Sample ID: 240-176329-5

Date Collected: 11/11/22 11:10

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	200		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	0.066	J	0.10	0.035	mg/L			11/11/22 18:56	5
Total Dissolved Solids (SM 2540C)	240		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	45		4.0	1.0	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	8.2	HF	0.1	0.1	SU			11/16/22 21:13	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-006 (GC-06D)

Lab Sample ID: 240-176329-6

Date Collected: 11/11/22 11:20

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	35		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	<0.0070		0.020	0.0070	mg/L			11/11/22 19:16	1
Total Dissolved Solids (SM 2540C)	170		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	26		4.0	1.0	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	8.2	HF	0.1	0.1	SU			11/16/22 21:20	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-007 (GC-09D)

Lab Sample ID: 240-176329-7

Date Collected: 11/11/22 11:35

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	180		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	0.060	J	0.10	0.035	mg/L			11/11/22 19:12	5
Total Dissolved Solids (SM 2540C)	140		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	130		10	2.6	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	8.3	HF	0.1	0.1	SU			11/16/22 21:26	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-011 (SC-01D)

Lab Sample ID: 240-176329-8

Date Collected: 11/11/22 12:15

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	77		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	0.063		0.020	0.0070	mg/L			11/11/22 19:19	1
Total Dissolved Solids (SM 2540C)	210		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	25		4.4	1.1	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	9.4	HF	0.1	0.1	SU			11/16/22 21:28	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: ISWP-012 (SC-02D)

Lab Sample ID: 240-176329-9

Date Collected: 11/11/22 12:05

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	84		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	0.076		0.020	0.0070	mg/L			11/11/22 18:46	1
Total Dissolved Solids (SM 2540C)	290		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	20		4.0	1.0	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	11.7	HF	0.1	0.1	SU			11/16/22 21:30	1

Client Sample Results

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

Job ID: 240-176329-1

Client Sample ID: US01

Lab Sample ID: 240-176329-10

Date Collected: 11/11/22 12:30

Matrix: Water

Date Received: 11/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<2.5		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SM 3500-Cr B-2009)	<0.0070		0.020	0.0070	mg/L			11/11/22 18:42	1
Total Dissolved Solids (SM 2540C)	550		10	7.8	mg/L			11/18/22 09:47	1
Total Suspended Solids (SM 2540D)	18		4.0	1.0	mg/L			11/17/22 09:47	1
pH (SM 4500 H+ B)	8.4	HF	0.1	0.1	SU			11/16/22 21:32	1

QC Sample Results

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

Job ID: 240-176329-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 240-551842/1-A
Matrix: Water
Analysis Batch: 552338

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 551842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<2.5		5.0	2.5	ug/L		11/14/22 12:00	11/16/22 15:43	1

Lab Sample ID: LCS 240-551842/2-A
Matrix: Water
Analysis Batch: 552338

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 551842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	500	490		ug/L		98	85 - 115

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

Lab Sample ID: MB 240-551524/3
Matrix: Water
Analysis Batch: 551524

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0070		0.020	0.0070	mg/L			11/11/22 08:15	1

Lab Sample ID: LCS 240-551524/4
Matrix: Water
Analysis Batch: 551524

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.250	0.221		mg/L		89	80 - 123

Lab Sample ID: 240-176329-5 MS
Matrix: Water
Analysis Batch: 551524

Client Sample ID: ISWP-005 (GC-05D)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.066	J	1.25	1.13		mg/L		85	31 - 151

Lab Sample ID: 240-176329-5 MSD
Matrix: Water
Analysis Batch: 551524

Client Sample ID: ISWP-005 (GC-05D)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.066	J	1.25	1.12		mg/L		84	31 - 151	1	20

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

Lab Sample ID: MB 240-552457/1
Matrix: Water
Analysis Batch: 552457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<7.8		10	7.8	mg/L			11/17/22 09:44	1

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QC Sample Results

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

Job ID: 240-176329-1

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

Lab Sample ID: MB 240-552684/1

Matrix: Water

Analysis Batch: 552684

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<7.8		10	7.8	mg/L			11/18/22 09:47	1

Lab Sample ID: LCS 240-552684/2

Matrix: Water

Analysis Batch: 552684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	388	389		mg/L		100	80 - 120

Lab Sample ID: 240-176329-9 DU

Matrix: Water

Analysis Batch: 552684

Client Sample ID: ISWP-012 (SC-02D)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	290		273		mg/L		5	20

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

Lab Sample ID: MB 240-552193/1

Matrix: Water

Analysis Batch: 552193

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.0		4.0	1.0	mg/L			11/16/22 08:14	1

Lab Sample ID: LCS 240-552193/2

Matrix: Water

Analysis Batch: 552193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	36.8	30.0		mg/L		82	64 - 120

Lab Sample ID: MB 240-552459/1

Matrix: Water

Analysis Batch: 552459

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.0		4.0	1.0	mg/L			11/17/22 09:47	1

Lab Sample ID: LCS 240-552459/2

Matrix: Water

Analysis Batch: 552459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	36.8	31.5		mg/L		86	64 - 120

QC Sample Results

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

Job ID: 240-176329-1

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 240-552522/3

Matrix: Water

Analysis Batch: 552522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	9.20	9.3		SU		101	97 - 103

Lab Sample ID: LCS 240-552522/34

Matrix: Water

Analysis Batch: 552522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	9.20	9.3		SU		101	97 - 103

Lab Sample ID: 240-176329-6 DU

Matrix: Water

Analysis Batch: 552522

Client Sample ID: ISWP-006 (GC-06D)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2	HF	8.2		SU		0.1	20

QC Association Summary

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

Job ID: 240-176329-1

Metals

Prep Batch: 551842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-1	FD	Total Recoverable	Water	200.8	
240-176329-2	DS01	Total Recoverable	Water	200.8	
240-176329-3	ISWP-001 (GC-01D)	Total Recoverable	Water	200.8	
240-176329-4	ISWP-002 (GC-02D)	Total Recoverable	Water	200.8	
240-176329-5	ISWP-005 (GC-05D)	Total Recoverable	Water	200.8	
240-176329-6	ISWP-006 (GC-06D)	Total Recoverable	Water	200.8	
240-176329-7	ISWP-007 (GC-09D)	Total Recoverable	Water	200.8	
240-176329-8	ISWP-011 (SC-01D)	Total Recoverable	Water	200.8	
240-176329-9	ISWP-012 (SC-02D)	Total Recoverable	Water	200.8	
240-176329-10	US01	Total Recoverable	Water	200.8	
MB 240-551842/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 240-551842/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 552338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-1	FD	Total Recoverable	Water	200.8	551842
240-176329-2	DS01	Total Recoverable	Water	200.8	551842
240-176329-3	ISWP-001 (GC-01D)	Total Recoverable	Water	200.8	551842
240-176329-4	ISWP-002 (GC-02D)	Total Recoverable	Water	200.8	551842
240-176329-5	ISWP-005 (GC-05D)	Total Recoverable	Water	200.8	551842
240-176329-6	ISWP-006 (GC-06D)	Total Recoverable	Water	200.8	551842
240-176329-7	ISWP-007 (GC-09D)	Total Recoverable	Water	200.8	551842
240-176329-8	ISWP-011 (SC-01D)	Total Recoverable	Water	200.8	551842
240-176329-9	ISWP-012 (SC-02D)	Total Recoverable	Water	200.8	551842
240-176329-10	US01	Total Recoverable	Water	200.8	551842
MB 240-551842/1-A	Method Blank	Total Recoverable	Water	200.8	551842
LCS 240-551842/2-A	Lab Control Sample	Total Recoverable	Water	200.8	551842

General Chemistry

Analysis Batch: 551524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-1	FD	Total/NA	Water	3500-Cr B-2009	
240-176329-2	DS01	Total/NA	Water	3500-Cr B-2009	
240-176329-3	ISWP-001 (GC-01D)	Total/NA	Water	3500-Cr B-2009	
240-176329-4	ISWP-002 (GC-02D)	Total/NA	Water	3500-Cr B-2009	
240-176329-5	ISWP-005 (GC-05D)	Total/NA	Water	3500-Cr B-2009	
240-176329-6	ISWP-006 (GC-06D)	Total/NA	Water	3500-Cr B-2009	
240-176329-7	ISWP-007 (GC-09D)	Total/NA	Water	3500-Cr B-2009	
240-176329-8	ISWP-011 (SC-01D)	Total/NA	Water	3500-Cr B-2009	
240-176329-9	ISWP-012 (SC-02D)	Total/NA	Water	3500-Cr B-2009	
240-176329-10	US01	Total/NA	Water	3500-Cr B-2009	
MB 240-551524/3	Method Blank	Total/NA	Water	3500-Cr B-2009	
LCS 240-551524/4	Lab Control Sample	Total/NA	Water	3500-Cr B-2009	
240-176329-5 MS	ISWP-005 (GC-05D)	Total/NA	Water	3500-Cr B-2009	
240-176329-5 MSD	ISWP-005 (GC-05D)	Total/NA	Water	3500-Cr B-2009	

Analysis Batch: 552193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-1	FD	Total/NA	Water	SM 2540D	
240-176329-2	DS01	Total/NA	Water	SM 2540D	

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QC Association Summary

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

Job ID: 240-176329-1

General Chemistry (Continued)

Analysis Batch: 552193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-3	ISWP-001 (GC-01D)	Total/NA	Water	SM 2540D	
MB 240-552193/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-552193/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 552457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-1	FD	Total/NA	Water	SM 2540C	
240-176329-2	DS01	Total/NA	Water	SM 2540C	
240-176329-3	ISWP-001 (GC-01D)	Total/NA	Water	SM 2540C	
MB 240-552457/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-552457/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 552459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-4	ISWP-002 (GC-02D)	Total/NA	Water	SM 2540D	
240-176329-5	ISWP-005 (GC-05D)	Total/NA	Water	SM 2540D	
240-176329-6	ISWP-006 (GC-06D)	Total/NA	Water	SM 2540D	
240-176329-7	ISWP-007 (GC-09D)	Total/NA	Water	SM 2540D	
240-176329-8	ISWP-011 (SC-01D)	Total/NA	Water	SM 2540D	
240-176329-9	ISWP-012 (SC-02D)	Total/NA	Water	SM 2540D	
240-176329-10	US01	Total/NA	Water	SM 2540D	
MB 240-552459/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-552459/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 552522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-1	FD	Total/NA	Water	SM 4500 H+ B	
240-176329-2	DS01	Total/NA	Water	SM 4500 H+ B	
240-176329-3	ISWP-001 (GC-01D)	Total/NA	Water	SM 4500 H+ B	
240-176329-4	ISWP-002 (GC-02D)	Total/NA	Water	SM 4500 H+ B	
240-176329-5	ISWP-005 (GC-05D)	Total/NA	Water	SM 4500 H+ B	
240-176329-6	ISWP-006 (GC-06D)	Total/NA	Water	SM 4500 H+ B	
240-176329-7	ISWP-007 (GC-09D)	Total/NA	Water	SM 4500 H+ B	
240-176329-8	ISWP-011 (SC-01D)	Total/NA	Water	SM 4500 H+ B	
240-176329-9	ISWP-012 (SC-02D)	Total/NA	Water	SM 4500 H+ B	
240-176329-10	US01	Total/NA	Water	SM 4500 H+ B	
LCS 240-552522/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 240-552522/34	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
240-176329-6 DU	ISWP-006 (GC-06D)	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 552684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-4	ISWP-002 (GC-02D)	Total/NA	Water	SM 2540C	
240-176329-5	ISWP-005 (GC-05D)	Total/NA	Water	SM 2540C	
240-176329-6	ISWP-006 (GC-06D)	Total/NA	Water	SM 2540C	
240-176329-7	ISWP-007 (GC-09D)	Total/NA	Water	SM 2540C	
240-176329-8	ISWP-011 (SC-01D)	Total/NA	Water	SM 2540C	
240-176329-9	ISWP-012 (SC-02D)	Total/NA	Water	SM 2540C	
240-176329-10	US01	Total/NA	Water	SM 2540C	
MB 240-552684/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-552684/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Golder Associates Inc.

Job ID: 240-176329-1

Project/Site: Former Satralloy Site - Industrial SWPPP

General Chemistry (Continued)

Analysis Batch: 552684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176329-9 DU	ISWP-012 (SC-02D)	Total/NA	Water	SM 2540C	

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Lab Chronicle

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

Job ID: 240-176329-1

Client Sample ID: FD

Lab Sample ID: 240-176329-1

Date Collected: 11/11/22 00:00

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:23
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 19:09
Total/NA	Analysis	SM 2540C		1	552457	MS	EET CAN	11/17/22 09:44
Total/NA	Analysis	SM 2540D		1	552193	MS	EET CAN	11/16/22 08:14
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:03

Client Sample ID: DS01

Lab Sample ID: 240-176329-2

Date Collected: 11/11/22 10:20

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:25
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 18:53
Total/NA	Analysis	SM 2540C		1	552457	MS	EET CAN	11/17/22 09:44
Total/NA	Analysis	SM 2540D		1	552193	MS	EET CAN	11/16/22 08:14
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:06

Client Sample ID: ISWP-001 (GC-01D)

Lab Sample ID: 240-176329-3

Date Collected: 11/11/22 10:40

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:27
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 18:50
Total/NA	Analysis	SM 2540C		1	552457	MS	EET CAN	11/17/22 09:44
Total/NA	Analysis	SM 2540D		1	552193	MS	EET CAN	11/16/22 08:14
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:07

Client Sample ID: ISWP-002 (GC-02D)

Lab Sample ID: 240-176329-4

Date Collected: 11/11/22 10:58

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:30
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 18:44
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:10

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Lab Chronicle

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

Job ID: 240-176329-1

Client Sample ID: ISWP-005 (GC-05D)

Lab Sample ID: 240-176329-5

Date Collected: 11/11/22 11:10

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:32
Total/NA	Analysis	3500-Cr B-2009		5	551524	MED	EET CAN	11/11/22 18:56
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:13

Client Sample ID: ISWP-006 (GC-06D)

Lab Sample ID: 240-176329-6

Date Collected: 11/11/22 11:20

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:35
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 19:16
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:20

Client Sample ID: ISWP-007 (GC-09D)

Lab Sample ID: 240-176329-7

Date Collected: 11/11/22 11:35

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:42
Total/NA	Analysis	3500-Cr B-2009		5	551524	MED	EET CAN	11/11/22 19:12
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:26

Client Sample ID: ISWP-011 (SC-01D)

Lab Sample ID: 240-176329-8

Date Collected: 11/11/22 12:15

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:45
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 19:19
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:28

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Lab Chronicle

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

Job ID: 240-176329-1

Client Sample ID: ISWP-012 (SC-02D)

Lab Sample ID: 240-176329-9

Date Collected: 11/11/22 12:05

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:47
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 18:46
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:30

Client Sample ID: US01

Lab Sample ID: 240-176329-10

Date Collected: 11/11/22 12:30

Matrix: Water

Date Received: 11/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			551842	SHB	EET CAN	11/14/22 12:00
Total Recoverable	Analysis	200.8		1	552338	AJC	EET CAN	11/16/22 16:50
Total/NA	Analysis	3500-Cr B-2009		1	551524	MED	EET CAN	11/11/22 18:42
Total/NA	Analysis	SM 2540C		1	552684	MS	EET CAN	11/18/22 09:47
Total/NA	Analysis	SM 2540D		1	552459	MS	EET CAN	11/17/22 09:47
Total/NA	Analysis	SM 4500 H+ B		1	552522	MMS	EET CAN	11/16/22 21:32

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Golder Associates Inc.

Job ID: 240-176329-1

Project/Site: Former Satralloy Site - Industrial SWPPP

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

Eurofins - Canton Sample Receipt Form/Narrative Login # : 176327
Barberton Facility

Client Golden Site Name 11-1-22 Cooler unpacked by: Charuk
Cooler Received on 11-1-22 Opened on 11-1-22
FedEx: 1st Grd Exp UPS FAS Clipper ~~Client Drop Off~~ Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time 11-1-22 Storage Location 11-1-22

Eurofins Cooler # 11 Foam Box 11 Client Cooler 11 Box 11 Other 11
Packing material used: Bubble Wrap Foam 11 Plastic Bag 11 None 11 Other 11
COOLANT: Water Blue Ice 11 Dry Ice 11 Water 11 None 11

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. 11 °C Corrected Cooler Temp. 11 °C
IR GUN# IR-15 (CF 0.0 °C) Observed Cooler Temp. 11 °C Corrected Cooler Temp. 11 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 11 Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC286797
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? 11 Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 11 Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM 11 Date 11 by 11 via Verbal Voice Mail Other
Concerning 11

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: 11

19. SAMPLE CONDITION
Sample(s) 11 were received after the recommended holding time had expired.
Sample(s) 11 were received in a broken container.
Sample(s) 11 were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) 11 were further preserved in the laboratory.
Time preserved: 11 Preservative(s) added/Lot number(s): 11
VOA Sample Preservation - Date/Time VOAs Frozen: 11

W7-NC-099

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
DCL-PPS-55-GW-11022	240-176268-J-1	Plastic 500ml - with Nitric Acid	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-K-1	Plastic 500ml - with Nitric Acid	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-L-1	Plastic 500ml - with Nitric Acid	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-M-1	Plastic 500ml - with Nitric Acid	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-N-1	Plastic 500ml - with Nitric Acid	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-O-1	Plastic 500ml - with Nitric Acid	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-P-1	Plastic 500ml - w/ Nitric - Dis.	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-Q-1	Plastic 500ml - w/ Nitric - Dis.	_____	_____	_____	_____
DCL-PPS-55-GW-11022	240-176268-R-1	Plastic 500ml - w/ Nitric - Dis.	_____	_____	_____	_____

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container		Preservative	
			pH	Temp	Added (mls)	Lot #
OUTFALL 009	240-176328-A-1	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 009	240-176328-B-1	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 009	240-176328-E-1	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 009	240-176328-F-1	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 002	240-176328-A-2	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 002	240-176328-B-2	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 002	240-176328-E-2	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 002	240-176328-F-2	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 604	240-176328-A-3	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 604	240-176328-B-3	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 604	240-176328-E-3	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 604	240-176328-F-3	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 605	240-176328-A-4	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 605	240-176328-B-4	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 605	240-176328-E-4	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 605	240-176328-F-4	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 005	240-176328-A-5	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 005	240-176328-B-5	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 005	240-176328-E-5	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 005	240-176328-F-5	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 901	240-176328-A-6	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 901	240-176328-B-6	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 901	240-176328-E-6	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 901	240-176328-F-6	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 010	240-176328-A-7	Plastic 250ml - with Sulfuric Acid	<2			
OUTFALL 010	240-176328-B-7	Plastic 500ml - with Nitric Acid	<2			
OUTFALL 010	240-176328-E-7	Amber Glass 1 liter Wide - Sulfuric Acid				
OUTFALL 010	240-176328-F-7	Amber Glass 1 liter Wide - Sulfuric Acid				

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Job Notes

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Authorization



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