



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax**

October 12, 2023

Zeno Bain
US EPA CEPD-MPCB
City View Plaza II Building, Suite 7000, 7th Floor,
Route 165

RE: St. Croix DW Study - 2309064

Enclosed are the results of analyses for samples received by the laboratory between 10/4/2023 and 10/6/2023. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 2309064 and contact the laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon". The signature is fluid and cursive.

John R. Bourbon
Chief, LSASD/LB



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Final Report

Project: St. Croix DW Study - 2309064

Project Number: 2309064

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.



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Reporting Limit(s):

The Laboratory was able to achieve the appropriate limit for each analyte requested.



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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
Richmond #1- SPOE	2309064-01	Aqueous	09/28/2023 06:50	10/04/2023 10:15
64	2309064-02	Aqueous	09/28/2023 07:20	10/04/2023 10:15
063	2309064-03	Aqueous	09/28/2023 07:41	10/04/2023 10:15
062	2309064-04	Aqueous	09/28/2023 08:10	10/04/2023 10:15
061	2309064-05	Aqueous	09/28/2023 08:28	10/04/2023 10:15
060-Frank Thomas Drive	2309064-06	Aqueous	09/28/2023 08:51	10/04/2023 10:15
059	2309064-07	Aqueous	09/28/2023 09:25	10/04/2023 10:15
058	2309064-08	Aqueous	09/28/2023 09:48	10/04/2023 10:15
057	2309064-09	Aqueous	09/28/2023 10:11	10/04/2023 10:15
055	2309064-10	Aqueous	09/28/2023 10:36	10/04/2023 10:15
054	2309064-11	Aqueous	09/28/2023 11:09	10/04/2023 10:15
056-St John's-La Grande Princesse	2309064-12	Aqueous	09/28/2023 11:26	10/04/2023 10:15
053	2309064-13	Aqueous	09/28/2023 13:04	10/04/2023 10:15
052	2309064-14	Aqueous	09/28/2023 13:11	10/04/2023 10:15
051	2309064-15	Aqueous	09/28/2023 13:51	10/04/2023 10:15
050	2309064-16	Aqueous	09/28/2023 14:19	10/04/2023 10:15
049	2309064-17	Aqueous	09/28/2023 14:46	10/04/2023 10:15
048	2309064-18	Aqueous	09/28/2023 15:02	10/04/2023 10:15
047A	2309064-19	Aqueous	09/29/2023 07:06	10/04/2023 10:15
047B	2309064-20	Aqueous	09/29/2023 07:08	10/04/2023 10:15
046A	2309064-21	Aqueous	09/29/2023 07:26	10/04/2023 10:15
045A	2309064-22	Aqueous	09/29/2023 07:30	10/04/2023 10:15
045B	2309064-23	Aqueous	09/29/2023 07:43	10/04/2023 10:15
044A	2309064-24	Aqueous	09/29/2023 07:47	10/04/2023 10:15
044B	2309064-25	Aqueous	09/29/2023 08:06	10/04/2023 10:15
043A	2309064-26	Aqueous	09/29/2023 08:08	10/04/2023 10:15
043B	2309064-27	Aqueous	09/29/2023 08:40	10/04/2023 10:15
066A	2309064-28	Aqueous	09/29/2023 08:44	10/04/2023 10:15



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Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
066B	2309064-29	Aqueous	09/29/2023 09:01	10/04/2023 10:15
042A	2309064-30	Aqueous	09/29/2023 09:27	10/04/2023 10:15
042B	2309064-31	Aqueous	09/29/2023 09:31	10/04/2023 10:15
041A	2309064-32	Aqueous	09/29/2023 10:05	10/04/2023 10:15
041B	2309064-33	Aqueous	09/29/2023 10:10	10/04/2023 10:15
040A	2309064-34	Aqueous	09/29/2023 10:28	10/04/2023 10:15
040B	2309064-35	Aqueous	09/29/2023 10:37	10/04/2023 10:15
039A	2309064-36	Aqueous	09/29/2023 10:55	10/04/2023 10:15
039B	2309064-37	Aqueous	09/29/2023 11:09	10/04/2023 10:15
038A	2309064-38	Aqueous	09/29/2023 11:33	10/04/2023 10:15
038B	2309064-39	Aqueous	09/29/2023 11:35	10/04/2023 10:15
037A	2309064-40	Aqueous	09/29/2023 12:00	10/04/2023 10:15
037B	2309064-41	Aqueous	09/29/2023 12:05	10/04/2023 10:15
036A	2309064-42	Aqueous	09/29/2023 15:25	10/04/2023 10:15
036B	2309064-43	Aqueous	09/29/2023 15:30	10/04/2023 10:15
035A	2309064-44	Aqueous	09/29/2023 15:52	10/04/2023 10:15
035B	2309064-45	Aqueous	09/29/2023 15:55	10/04/2023 10:15
034A	2309064-46	Aqueous	09/29/2023 16:10	10/04/2023 10:15
034B	2309064-47	Aqueous	09/29/2023 16:13	10/04/2023 10:15
033B	2309064-48	Aqueous	09/29/2023 16:40	10/04/2023 10:15
1	2309064-49	Aqueous	09/28/2023 06:53	10/04/2023 10:15
2A	2309064-50	Aqueous	09/28/2023 07:18	10/04/2023 10:15
2B	2309064-51	Aqueous	09/28/2023 07:18	10/04/2023 10:15
3A	2309064-52	Aqueous	09/28/2023 07:49	10/04/2023 10:15
3B	2309064-53	Aqueous	09/28/2023 07:49	10/04/2023 10:15
4A	2309064-54	Aqueous	09/28/2023 08:20	10/04/2023 10:15
4B	2309064-55	Aqueous	09/28/2023 08:20	10/04/2023 10:15
5A	2309064-56	Aqueous	09/28/2023 08:38	10/04/2023 10:15
5B	2309064-57	Aqueous	09/28/2023 08:38	10/04/2023 10:15



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Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
6A	2309064-58	Aqueous	09/28/2023 09:00	10/04/2023 10:15
6B	2309064-59	Aqueous	09/28/2023 09:00	10/04/2023 10:15
7A	2309064-60	Aqueous	09/28/2023 09:34	10/04/2023 10:15
7B	2309064-61	Aqueous	09/28/2023 09:34	10/04/2023 10:15
8A	2309064-62	Aqueous	09/28/2023 10:05	10/04/2023 10:15
8B	2309064-63	Aqueous	09/28/2023 10:05	10/04/2023 10:15
9A	2309064-64	Aqueous	09/28/2023 10:21	10/04/2023 10:15
9B	2309064-65	Aqueous	09/28/2023 10:21	10/04/2023 10:15
10A	2309064-66	Aqueous	09/28/2023 10:42	10/04/2023 10:15
10B	2309064-67	Aqueous	09/28/2023 10:42	10/04/2023 10:15
11A	2309064-68	Aqueous	09/28/2023 11:04	10/04/2023 10:15
11B	2309064-69	Aqueous	09/28/2023 11:04	10/04/2023 10:15
13A	2309064-70	Aqueous	09/28/2023 11:34	10/04/2023 10:15
13B	2309064-71	Aqueous	09/28/2023 11:34	10/04/2023 10:15
12A	2309064-72	Aqueous	09/28/2023 02:28	10/04/2023 10:15
12B	2309064-73	Aqueous	09/28/2023 02:28	10/04/2023 10:15
14A	2309064-74	Aqueous	09/28/2023 01:20	10/04/2023 10:15
14B	2309064-75	Aqueous	09/28/2023 01:20	10/04/2023 10:15
15A	2309064-76	Aqueous	09/28/2023 01:39	10/04/2023 10:15
15B	2309064-77	Aqueous	09/28/2023 01:39	10/04/2023 10:15
16A	2309064-78	Aqueous	09/28/2023 02:30	10/04/2023 10:15
16B	2309064-79	Aqueous	09/28/2023 02:30	10/04/2023 10:15
17A	2309064-80	Aqueous	09/28/2023 03:08	10/04/2023 10:15
17B	2309064-81	Aqueous	09/28/2023 03:08	10/04/2023 10:15
18A	2309064-82	Aqueous	09/29/2023 06:56	10/04/2023 10:15
19A	2309064-83	Aqueous	09/29/2023 07:18	10/04/2023 10:15
20A	2309064-84	Aqueous	09/29/2023 07:46	10/04/2023 10:15
21A	2309064-85	Aqueous	09/29/2023 08:10	10/04/2023 10:15



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Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
22B	2309064-86	Aqueous	09/29/2023 08:46	10/04/2023 10:15
22A1	2309064-87	Aqueous	09/29/2023 08:55	10/04/2023 10:15
23A	2309064-88	Aqueous	09/29/2023 09:23	10/04/2023 10:15
23B	2309064-89	Aqueous	09/29/2023 09:23	10/04/2023 10:15
24A	2309064-90	Aqueous	09/29/2023 09:45	10/04/2023 10:15
24B	2309064-91	Aqueous	09/29/2023 09:45	10/04/2023 10:15
25A	2309064-92	Aqueous	09/29/2023 10:05	10/04/2023 10:15
25	2309064-93	Aqueous	09/29/2023 10:05	10/04/2023 10:15
26A	2309064-94	Aqueous	09/29/2023 10:29	10/04/2023 10:15
26	2309064-95	Aqueous	09/29/2023 10:29	10/04/2023 10:15
27A	2309064-96	Aqueous	09/29/2023 10:49	10/04/2023 10:15
27	2309064-97	Aqueous	09/29/2023 10:49	10/04/2023 10:15
28A	2309064-98	Aqueous	09/29/2023 11:42	10/04/2023 10:15
28	2309064-99	Aqueous	09/29/2023 11:42	10/04/2023 10:15
29A	2309064-AA	Aqueous	09/29/2023 11:55	10/04/2023 10:15
29	2309064-AB	Aqueous	09/29/2023 11:55	10/04/2023 10:15
30A	2309064-AC	Aqueous	09/29/2023 12:09	10/04/2023 10:15
30	2309064-AD	Aqueous	09/29/2023 12:09	10/04/2023 10:15
31A	2309064-AE	Aqueous	09/29/2023 12:27	10/04/2023 10:15
31	2309064-AF	Aqueous	09/29/2023 12:27	10/04/2023 10:15
32A	2309064-AG	Aqueous	09/29/2023 12:51	10/04/2023 10:15
32	2309064-AH	Aqueous	09/29/2023 12:51	10/04/2023 10:15
22A2	2309064-AI	Aqueous	09/29/2023 08:55	10/04/2023 10:15
21?	2309064-AJ	Aqueous	09/29/2023 08:26	10/04/2023 10:15
28612-Blank-1	2310017-01	Aqueous	09/30/2023 16:01	10/06/2023 09:30
28682-Blank-2	2310017-02	Aqueous	09/30/2023 16:01	10/06/2023 09:30
28399-Blank-3	2310017-03	Aqueous	09/30/2023 16:01	10/06/2023 09:30
28726-Blank-4	2310017-04	Aqueous	09/30/2023 16:01	10/06/2023 09:30
42370-Blank-5	2310017-05	Aqueous	09/30/2023 16:01	10/06/2023 09:30



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Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
28735-Blank-6	2310017-06	Aqueous	09/30/2023 16:01	10/06/2023 09:30
28620-Blank-7	2310017-07	Aqueous	09/30/2023 16:01	10/06/2023 09:30
28357-Blank-8	2310017-08	Aqueous	09/30/2023 16:01	10/06/2023 09:30



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SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Mercury	EPA 245.1 SOP C-110 Rev 2.8	NELAP	Aqueous
Metals ICPMS TAL NPDES/DW	EPA 200.8 SOP C-112 Rev 3.9	NELAP	Aqueous



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: Richmond #1- SPOE

Sample ID: 2309064-01

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	4.51		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 64

Sample ID: 2309064-02

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.62		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	42.5		1.00	ug/L	B310030	
Lead	2.66		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 063

Sample ID: 2309064-03

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: 063

Sample ID: 2309064-03

Metals ICPMS

Arsenic	---	U	1.00	ug/L	B310030	
Barium	3.66		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	72.4		1.00	ug/L	B310030	
Lead	5.96		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 062

Sample ID: 2309064-04

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	2.27		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	9.66		1.00	ug/L	B310032	
Lead	---	U	1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 061

Sample ID: 2309064-05

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: 061

Sample ID: 2309064-05

Metals ICPMS

Barium	1.06		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	22.8		1.00	ug/L	B310030	
Lead	2.56		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 060-Frank Thomas Drive

Sample ID: 2309064-06

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.02		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	15.1		1.00	ug/L	B310030	
Lead	1.98		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 059

Sample ID: 2309064-07

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: 059

Sample ID: 2309064-07

Metals ICPMS

Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	41.4		1.00	ug/L	B310030	
Lead	3.84		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 058

Sample ID: 2309064-08

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	24.1		1.00	ug/L	B310030	
Lead	3.57		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 057

Sample ID: 2309064-09

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: 057

Sample ID: 2309064-09

Metals ICPMS

Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	16.0		1.00	ug/L	B310030	
Lead	2.10		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 055

Sample ID: 2309064-10

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	5.55		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	4.43		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	1.07		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 054

Sample ID: 2309064-11

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	2.36		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	



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Field ID: 054

Sample ID: 2309064-11

Metals ICPMS

Chromium	---	U	2.00	ug/L	B310032	
Copper	174		1.00	ug/L	B310032	
Lead	34.5		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 056-St John's-La Grande Princesse

Sample ID: 2309064-12

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.76		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	38.3		1.00	ug/L	B310030	
Lead	4.68		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 053

Sample ID: 2309064-13

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	5.21		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	



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Field ID: 053

Sample ID: 2309064-13

Metals ICPMS

Copper	15.1		1.00	ug/L	B310030	
Lead	2.94		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 052

Sample ID: 2309064-14

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	10.9		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	5.98		1.00	ug/L	B310030	
Lead	6.95		1.00	ug/L	B310030	
Selenium	1.53		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 051

Sample ID: 2309064-15

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	23.6		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	10.3		1.00	ug/L	B310032	



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Field ID: 051

Sample ID: 2309064-15

Metals ICPMS

Lead	1.17		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 050

Sample ID: 2309064-16

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.26		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	24.1		1.00	ug/L	B310030	
Lead	2.01		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 049

Sample ID: 2309064-17

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.44		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	14.6		1.00	ug/L	B310030	
Lead	1.76		1.00	ug/L	B310030	



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Field ID: 049

Sample ID: 2309064-17

Metals ICPMS

Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031
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Field ID: 048

Sample ID: 2309064-18

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	2.17		1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	13.5		1.00	ug/L	B310030
Lead	1.46		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031
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Field ID: 047A

Sample ID: 2309064-19

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	1.33		1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	39.8		1.00	ug/L	B310030
Lead	7.41		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030



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Field ID: 047A

Sample ID: 2309064-19

Metals ICPMS

Thallium	---	U	1.00	ug/L	B310030
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031
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Field ID: 047B

Sample ID: 2309064-20

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
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Arsenic	---	U	1.00	ug/L	B310030
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Barium	1.35		1.00	ug/L	B310030
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Beryllium	---	U	1.00	ug/L	B310030
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Cadmium	---	U	1.00	ug/L	B310030
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Chromium	---	U	2.00	ug/L	B310030
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Copper	16.9		1.00	ug/L	B310030
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Lead	3.35		1.00	ug/L	B310030
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Selenium	---	U	1.00	ug/L	B310030
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Thallium	---	U	1.00	ug/L	B310030
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031
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Field ID: 046A

Sample ID: 2309064-21

Metals ICPMS

Antimony	5.43		1.00	ug/L	B310032
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Arsenic	---	U	1.00	ug/L	B310032
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Barium	1.20		1.00	ug/L	B310032
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Beryllium	---	U	1.00	ug/L	B310032
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Cadmium	---	U	1.00	ug/L	B310032
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Chromium	---	U	2.00	ug/L	B310032
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Copper	8660		50.0	ug/L	B310032
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Lead	729		5.00	ug/L	B310032
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Selenium	---	U	1.00	ug/L	B310032
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Thallium	---	U	1.00	ug/L	B310032
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Field ID: 046A

Sample ID: 2309064-21

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 045A

Sample ID: 2309064-22

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	97.1		1.00	ug/L	B310030	
Lead	3.08		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 045B

Sample ID: 2309064-23

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.01		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	26.7		1.00	ug/L	B310030	
Lead	1.36		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 044A

Sample ID: 2309064-24

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.16		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	760		5.00	ug/L	B310030	
Lead	128		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 044B

Sample ID: 2309064-25

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.15		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	53.4		1.00	ug/L	B310030	
Lead	5.73		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 043A

Sample ID: 2309064-26

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
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Field ID: 043A

Sample ID: 2309064-26

Metals ICPMS

Arsenic	---	U	1.00	ug/L	B310032	
Barium	1.42		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	380		2.00	ug/L	B310032	
Lead	37.2		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 043B

Sample ID: 2309064-27

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.14		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	27.9		1.00	ug/L	B310030	
Lead	3.80		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 066A

Sample ID: 2309064-28

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	



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Field ID: 066A

Sample ID: 2309064-28

Metals ICPMS

Barium	3.86		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	3770		20.0	ug/L	B310032	
Lead	246		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 066B

Sample ID: 2309064-29

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	4.20		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	50.7		1.00	ug/L	B310030	
Lead	1.92		1.00	ug/L	B310030	
Selenium	1.18		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 042A

Sample ID: 2309064-30

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	2.35		1.00	ug/L	B310032	



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Field ID: 042A

Sample ID: 2309064-30

Metals ICPMS

Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	68.6		1.00	ug/L	B310032	
Lead	3.81		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 042B

Sample ID: 2309064-31

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	2.49		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	18.8		1.00	ug/L	B310030	
Lead	1.42		1.00	ug/L	B310030	
Selenium	1.12		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 041A

Sample ID: 2309064-32

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	1.67		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	



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Field ID: 041A

Sample ID: 2309064-32

Metals ICPMS

Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	1320		10.0	ug/L	B310032	
Lead	1170		10.0	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 041B

Sample ID: 2309064-33

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.01		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	32.6		1.00	ug/L	B310030	
Lead	3.31		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 040A

Sample ID: 2309064-34

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	5.76		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	



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Field ID: 040A

Sample ID: 2309064-34

Metals ICPMS

Chromium	---	U	2.00	ug/L	B310030	
Copper	---	U	1.00	ug/L	B310030	
Lead	14.0		1.00	ug/L	B310030	
Selenium	1.02		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 040B

Sample ID: 2309064-35

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	20.2		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	2.15		2.00	ug/L	B310032	
Copper	16.5		1.00	ug/L	B310032	
Lead	1.96		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 039A

Sample ID: 2309064-36

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	2.01		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	



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Field ID: 039A

Sample ID: 2309064-36

Metals ICPMS

Copper	1250		10.0	ug/L	B310032	
Lead	227		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 039B

Sample ID: 2309064-37

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	6.91		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	1.42		1.00	ug/L	B310032	
Copper	825		10.0	ug/L	B310032	
Lead	68.2		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 038A

Sample ID: 2309064-38

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	4.29		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	1.00	ug/L	B310030	
Copper	388		4.00	ug/L	B310030	



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Field ID: 038A

Sample ID: 2309064-38

Metals ICPMS

Lead	16.1		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 038B

Sample ID: 2309064-39

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	2.59		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	39.8		1.00	ug/L	B310030	
Lead	1.65		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031	
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Field ID: 037A

Sample ID: 2309064-40

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	124		1.00	ug/L	B310030	
Lead	21.2		1.00	ug/L	B310030	



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Field ID: 037A

Sample ID: 2309064-40

Metals ICPMS

Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310031
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Field ID: 037B

Sample ID: 2309064-41

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	---	U	1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	25.3		1.00	ug/L	B310030
Lead	1.40		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 036A

Sample ID: 2309064-42

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	---	U	1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	59.4		1.00	ug/L	B310030
Lead	2.39		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030



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Field ID: 036A

Sample ID: 2309064-42

Metals ICPMS

Thallium	---	U	1.00	ug/L	B310030
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 036B

Sample ID: 2309064-43

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
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Arsenic	---	U	1.00	ug/L	B310030
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Barium	---	U	1.00	ug/L	B310030
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Beryllium	---	U	1.00	ug/L	B310030
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Cadmium	---	U	1.00	ug/L	B310030
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Chromium	---	U	2.00	ug/L	B310030
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Copper	15.7		1.00	ug/L	B310030
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Lead	1.18		1.00	ug/L	B310030
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Selenium	---	U	1.00	ug/L	B310030
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Thallium	---	U	1.00	ug/L	B310030
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 035A

Sample ID: 2309064-44

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032
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Arsenic	---	U	1.00	ug/L	B310032
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Barium	1.28		1.00	ug/L	B310032
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Beryllium	---	U	1.00	ug/L	B310032
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Cadmium	---	U	1.00	ug/L	B310032
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Chromium	---	U	2.00	ug/L	B310032
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Copper	65.0		1.00	ug/L	B310032
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Lead	2.07		1.00	ug/L	B310032
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Selenium	---	U	1.00	ug/L	B310032
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Thallium	---	U	1.00	ug/L	B310032
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Field ID: 035A

Sample ID: 2309064-44

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 035B

Sample ID: 2309064-45

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	1.30		1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	32.7		1.00	ug/L	B310030
Lead	1.28		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 034A

Sample ID: 2309064-46

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	---	U	1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	23.5		1.00	ug/L	B310030
Lead	2.32		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 034B

Sample ID: 2309064-47

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	21.0		1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	5.51		1.00	ug/L	B310030
Lead	---	U	1.00	ug/L	B310030
Selenium	1.00		1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 033B

Sample ID: 2309064-48

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032
Arsenic	---	U	1.00	ug/L	B310032
Barium	2.47		1.00	ug/L	B310032
Beryllium	---	U	1.00	ug/L	B310032
Cadmium	---	U	1.00	ug/L	B310032
Chromium	---	U	2.00	ug/L	B310032
Copper	19.9		1.00	ug/L	B310032
Lead	1.64		1.00	ug/L	B310032
Selenium	---	U	1.00	ug/L	B310032
Thallium	---	U	1.00	ug/L	B310032

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 1

Sample ID: 2309064-49

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032
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Field ID: 1

Sample ID: 2309064-49

Metals ICPMS

Arsenic	---	U	1.00	ug/L	B310032	
Barium	4.30		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	122		1.00	ug/L	B310032	
Lead	23.3		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 2A

Sample ID: 2309064-50

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	6.64		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	238		1.00	ug/L	B310032	
Lead	43.4		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 2B

Sample ID: 2309064-51

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	



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Field ID: 2B

Sample ID: 2309064-51

Metals ICPMS

Barium	4.65		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	63.3		1.00	ug/L	B310032	
Lead	4.85		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 3A

Sample ID: 2309064-52

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	3.06		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	87.4		1.00	ug/L	B310032	
Lead	76.2		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 3B

Sample ID: 2309064-53

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	3.45		1.00	ug/L	B310032	



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Field ID: 3B

Sample ID: 2309064-53

Metals ICPMS

Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	9.40		1.00	ug/L	B310032	
Lead	1.36		1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 4A

Sample ID: 2309064-54

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310032	
Arsenic	---	U	1.00	ug/L	B310032	
Barium	1.20		1.00	ug/L	B310032	
Beryllium	---	U	1.00	ug/L	B310032	
Cadmium	---	U	1.00	ug/L	B310032	
Chromium	---	U	2.00	ug/L	B310032	
Copper	61.6		1.00	ug/L	B310032	
Lead	---	U	1.00	ug/L	B310032	
Selenium	---	U	1.00	ug/L	B310032	
Thallium	---	U	1.00	ug/L	B310032	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 4B

Sample ID: 2309064-55

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.13		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	



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Field ID: 4B

Sample ID: 2309064-55

Metals ICPMS

Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	7.67		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 5A

Sample ID: 2309064-56

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.20		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	2170		10.0	ug/L	B310034	
Lead	73.9		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 5B

Sample ID: 2309064-57

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	



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Field ID: 5B

Sample ID: 2309064-57

Metals ICPMS

Chromium	---	U	2.00	ug/L	B310030	
Copper	12.3		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 6A

Sample ID: 2309064-58

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	25.9		1.00	ug/L	B310030	
Lead	9.82		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 6B

Sample ID: 2309064-59

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	



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Field ID: 6B

Sample ID: 2309064-59

Metals ICPMS

Copper	8.30		1.00	ug/L	B310030	
Lead	1.08		1.00	ug/L	B310030	
Selenium	1.12		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 7A

Sample ID: 2309064-60

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.48		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	266		2.00	ug/L	B310034	
Lead	140		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 7B

Sample ID: 2309064-61

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.17		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	9.85		1.00	ug/L	B310034	



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Field ID: 7B

Sample ID: 2309064-61

Metals ICPMS

Lead	---	U	1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 8A

Sample ID: 2309064-62

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	3.61		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	142		1.00	ug/L	B310034	
Lead	66.6		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 8B

Sample ID: 2309064-63

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	10.1		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	47.3		1.00	ug/L	B310034	
Lead	4.99		1.00	ug/L	B310034	



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Field ID: 8B

Sample ID: 2309064-63

Metals ICPMS

Selenium	---	U	1.00	ug/L	B310034
Thallium	---	U	1.00	ug/L	B310034

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 9A

Sample ID: 2309064-64

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034
Arsenic	---	U	1.00	ug/L	B310034
Barium	3.81		1.00	ug/L	B310034
Beryllium	---	U	1.00	ug/L	B310034
Cadmium	---	U	1.00	ug/L	B310034
Chromium	---	U	2.00	ug/L	B310034
Copper	26.7		1.00	ug/L	B310034
Lead	53.0		1.00	ug/L	B310034
Selenium	---	U	1.00	ug/L	B310034
Thallium	---	U	1.00	ug/L	B310034

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 9B

Sample ID: 2309064-65

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034
Arsenic	---	U	1.00	ug/L	B310034
Barium	3.72		1.00	ug/L	B310034
Beryllium	---	U	1.00	ug/L	B310034
Cadmium	---	U	1.00	ug/L	B310034
Chromium	---	U	2.00	ug/L	B310034
Copper	4.94		1.00	ug/L	B310034
Lead	1.58		1.00	ug/L	B310034
Selenium	---	U	1.00	ug/L	B310034



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Field ID: 9B

Sample ID: 2309064-65

Metals ICPMS

Thallium	---	U	1.00	ug/L	B310034
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 10A

Sample ID: 2309064-66

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034
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Arsenic	---	U	1.00	ug/L	B310034
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Barium	2.38		1.00	ug/L	B310034
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Beryllium	---	U	1.00	ug/L	B310034
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Cadmium	---	U	1.00	ug/L	B310034
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Chromium	---	U	2.00	ug/L	B310034
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Copper	510		5.00	ug/L	B310034
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Lead	130		1.00	ug/L	B310034
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Selenium	---	U	1.00	ug/L	B310034
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Thallium	---	U	1.00	ug/L	B310034
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033
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Field ID: 10B

Sample ID: 2309064-67

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034
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Arsenic	---	U	1.00	ug/L	B310034
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Barium	2.33		1.00	ug/L	B310034
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Beryllium	---	U	1.00	ug/L	B310034
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Cadmium	---	U	1.00	ug/L	B310034
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Chromium	---	U	2.00	ug/L	B310034
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Copper	27.1		1.00	ug/L	B310034
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Lead	3.08		1.00	ug/L	B310034
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Selenium	---	U	1.00	ug/L	B310034
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Thallium	---	U	1.00	ug/L	B310034
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Field ID: 10B

Sample ID: 2309064-67

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 11A

Sample ID: 2309064-68

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	3.05		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	17.3		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 11B

Sample ID: 2309064-69

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	3.05		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	3.05		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 13A

Sample ID: 2309064-70

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.08		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	64.1		1.00	ug/L	B310034	
Lead	18.7		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 13B

Sample ID: 2309064-71

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.05		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	32.9		1.00	ug/L	B310034	
Lead	11.7		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 12A

Sample ID: 2309064-72

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
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Field ID: 12A

Sample ID: 2309064-72

Metals ICPMS

Arsenic	---	U	1.00	ug/L	B310034	
Barium	3.44		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	503		5.00	ug/L	B310034	
Lead	50.8		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 12B

Sample ID: 2309064-73

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	3.53		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	34.6		1.00	ug/L	B310034	
Lead	2.93		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 14A

Sample ID: 2309064-74

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	



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Field ID: 14A

Sample ID: 2309064-74

Metals ICPMS

Barium	3.61		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	190		1.00	ug/L	B310034	
Lead	25.3		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 14B

Sample ID: 2309064-75

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	3.50		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	5.30		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 15A

Sample ID: 2309064-76

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	---	U	1.00	ug/L	B310034	



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: 15A

Sample ID: 2309064-76

Metals ICPMS

Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	123		1.00	ug/L	B310034	
Lead	133		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 15B

Sample ID: 2309064-77

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	---	U	1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	5.61		1.00	ug/L	B310034	
Lead	38.9		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 16A

Sample ID: 2309064-78

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	16.4		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	



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Field ID: 16A

Sample ID: 2309064-78

Metals ICPMS

Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	8.25		1.00	ug/L	B310030	
Lead	1.35		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 16B

Sample ID: 2309064-79

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	16.3		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	---	U	1.00	ug/L	B310030	
Lead	1.38		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 17A

Sample ID: 2309064-80

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.20		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	



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Field ID: 17A

Sample ID: 2309064-80

Metals ICPMS

Chromium	---	U	2.00	ug/L	B310030	
Copper	318		2.00	ug/L	B310030	
Lead	115		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310033	
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Field ID: 17B

Sample ID: 2309064-81

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.07		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	8.81		1.00	ug/L	B310030	
Lead	2.14		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 18A

Sample ID: 2309064-82

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	8.95		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	



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Field ID: 18A

Sample ID: 2309064-82

Metals ICPMS

Copper	122		1.00	ug/L	B310030	
Lead	403		2.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 19A

Sample ID: 2309064-83

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	8.76		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	5950		50.0	ug/L	B310030	
Lead	360		2.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 20A

Sample ID: 2309064-84

Metals ICPMS

Antimony	1.11		1.00	ug/L	B310034	
Arsenic	1.58		1.00	ug/L	B310034	
Barium	5.59		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	7450		50.0	ug/L	B310034	



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Field ID: 20A

Sample ID: 2309064-84

Metals ICPMS

Lead	3370		20.0	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 21A

Sample ID: 2309064-85

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	19.6		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	36.5		1.00	ug/L	B310030	
Lead	7.61		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 22B

Sample ID: 2309064-86

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.12		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	8.53		1.00	ug/L	B310030	
Lead	11.2		1.00	ug/L	B310030	



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Field ID: 22B

Sample ID: 2309064-86

Metals ICPMS

Selenium	1.10		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 22A1

Sample ID: 2309064-87

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	4.93		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	18.4		1.00	ug/L	B310034	
Lead	---	U	1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 23A

Sample ID: 2309064-88

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.04		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	155		1.00	ug/L	B310030	
Lead	189		1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	



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Field ID: 23A

Sample ID: 2309064-88

Metals ICPMS

Thallium	---	U	1.00	ug/L	B310030
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 23B

Sample ID: 2309064-89

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	---	U	1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	6.02		1.00	ug/L	B310030
Lead	1.33		1.00	ug/L	B310030
Selenium	1.23		1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 24A

Sample ID: 2309064-90

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034
Arsenic	---	U	1.00	ug/L	B310034
Barium	21.7		1.00	ug/L	B310034
Beryllium	---	U	1.00	ug/L	B310034
Cadmium	---	U	1.00	ug/L	B310034
Chromium	---	U	2.00	ug/L	B310034
Copper	24600		100	ug/L	B310034
Lead	424		2.00	ug/L	B310034
Selenium	---	U	1.00	ug/L	B310034
Thallium	---	U	1.00	ug/L	B310034



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Field ID: 24A

Sample ID: 2309064-90

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 24B

Sample ID: 2309064-91

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	1.67		1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	25.2		1.00	ug/L	B310030
Lead	1.20		1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 25A

Sample ID: 2309064-92

Metals ICPMS

Antimony	5.08		1.00	ug/L	B310034
Arsenic	2.62		1.00	ug/L	B310034
Barium	25.6		1.00	ug/L	B310034
Beryllium	---	U	1.00	ug/L	B310034
Cadmium	---	U	1.00	ug/L	B310034
Chromium	6.84		2.00	ug/L	B310034
Copper	42100		200	ug/L	B310034
Lead	2510		20.0	ug/L	B310034
Selenium	---	U	1.00	ug/L	B310034
Thallium	---	U	1.00	ug/L	B310034

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 25

Sample ID: 2309064-93

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.91		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	2.42		1.00	ug/L	B310030	
Lead	1.54		1.00	ug/L	B310030	
Selenium	1.01		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 26A

Sample ID: 2309064-94

Metals ICPMS

Antimony	2.94		1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	1.29		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	4040		20.0	ug/L	B310030	
Lead	396		2.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 26

Sample ID: 2309064-95

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
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Field ID: 26

Sample ID: 2309064-95

Metals ICPMS

Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	11.4		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 27A

Sample ID: 2309064-96

Metals ICPMS

Antimony	37.3		1.00	ug/L	B310034	
Arsenic	4.85		1.00	ug/L	B310034	
Barium	2.97		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	137000		1000	ug/L	B310034	
Lead	20100		100	ug/L	B310034	
Selenium	2.89		1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 27

Sample ID: 2309064-97

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	



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Field ID: 27

Sample ID: 2309064-97

Metals ICPMS

Barium	---	U	1.00	ug/L	B310030
Beryllium	---	U	1.00	ug/L	B310030
Cadmium	---	U	1.00	ug/L	B310030
Chromium	---	U	2.00	ug/L	B310030
Copper	11.3		1.00	ug/L	B310030
Lead	---	U	1.00	ug/L	B310030
Selenium	---	U	1.00	ug/L	B310030
Thallium	---	U	1.00	ug/L	B310030

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 28A

Sample ID: 2309064-98

Metals ICPMS

Antimony	2.87		1.00	ug/L	B310034
Arsenic	---	U	1.00	ug/L	B310034
Barium	8.47		1.00	ug/L	B310034
Beryllium	---	U	1.00	ug/L	B310034
Cadmium	---	U	1.00	ug/L	B310034
Chromium	2.60		2.00	ug/L	B310034
Copper	8860		50.0	ug/L	B310034
Lead	846		5.00	ug/L	B310034
Selenium	---	U	1.00	ug/L	B310034
Thallium	---	U	1.00	ug/L	B310034

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035
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Field ID: 28

Sample ID: 2309064-99

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030
Arsenic	---	U	1.00	ug/L	B310030
Barium	---	U	1.00	ug/L	B310030



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Field ID: 28

Sample ID: 2309064-99

Metals ICPMS

Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	
Copper	6.14		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	1.20		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 29A

Sample ID: 2309064-AA

Metals ICPMS

Antimony	12.1		1.00	ug/L	B310034	
Arsenic	2.25		1.00	ug/L	B310034	
Barium	14.4		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	26700		200	ug/L	B310034	
Lead	9020		50.0	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310035	
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Field ID: 29

Sample ID: 2309064-AB

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.30		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	



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Field ID: 29

Sample ID: 2309064-AB

Metals ICPMS

Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	14.0		1.00	ug/L	B310034	
Lead	1.74		1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 30A

Sample ID: 2309064-AC

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	1.13		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	11900		50.0	ug/L	B310034	
Lead	1800		10.0	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 30

Sample ID: 2309064-AD

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	---	U	1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	



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Field ID: 30

Sample ID: 2309064-AD

Metals ICPMS

Chromium	---	U	2.00	ug/L	B310030	
Copper	7.01		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	---	U	1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 31A

Sample ID: 2309064-AE

Metals ICPMS

Antimony	1.32		1.00	ug/L	B310034	
Arsenic	12.4		1.00	ug/L	B310034	
Barium	334		2.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	14.8		2.00	ug/L	B310034	
Copper	23000		100	ug/L	B310034	
Lead	5050		50.0	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 31

Sample ID: 2309064-AF

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310030	
Arsenic	---	U	1.00	ug/L	B310030	
Barium	2.67		1.00	ug/L	B310030	
Beryllium	---	U	1.00	ug/L	B310030	
Cadmium	---	U	1.00	ug/L	B310030	
Chromium	---	U	2.00	ug/L	B310030	



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Field ID: 31

Sample ID: 2309064-AF

Metals ICPMS

Copper	5.36		1.00	ug/L	B310030	
Lead	---	U	1.00	ug/L	B310030	
Selenium	1.30		1.00	ug/L	B310030	
Thallium	---	U	1.00	ug/L	B310030	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 32A

Sample ID: 2309064-AG

Metals ICPMS

Antimony	1.68		1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	6.73		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	2.18		2.00	ug/L	B310034	
Copper	6120		50.0	ug/L	B310034	
Lead	2970		20.0	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 32

Sample ID: 2309064-AH

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	3.65		1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	7.61		1.00	ug/L	B310044	



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Field ID: 32

Sample ID: 2309064-AH

Metals ICPMS

Lead	2.02		1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 22A2

Sample ID: 2309064-AI

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310034	
Arsenic	---	U	1.00	ug/L	B310034	
Barium	6.00		1.00	ug/L	B310034	
Beryllium	---	U	1.00	ug/L	B310034	
Cadmium	---	U	1.00	ug/L	B310034	
Chromium	---	U	2.00	ug/L	B310034	
Copper	22.0		1.00	ug/L	B310034	
Lead	---	U	1.00	ug/L	B310034	
Selenium	---	U	1.00	ug/L	B310034	
Thallium	---	U	1.00	ug/L	B310034	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 21?

Sample ID: 2309064-AJ

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	3.02		1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	92.5		1.00	ug/L	B310044	
Lead	30.6		1.00	ug/L	B310044	



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Field ID: 21?

Sample ID: 2309064-AJ

Metals ICPMS

Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 28612-Blank-1

Sample ID: 2310017-01

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	---	U	1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	---	U	1.00	ug/L	B310044	
Lead	---	U	1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 28682-Blank-2

Sample ID: 2310017-02

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	---	U	1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	---	U	1.00	ug/L	B310044	
Lead	---	U	1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	



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Field ID: 28682-Blank-2

Sample ID: 2310017-02

Metals ICPMS

Thallium	---	U	1.00	ug/L	B310044
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041
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Field ID: 28399-Blank-3

Sample ID: 2310017-03

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044
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Arsenic	---	U	1.00	ug/L	B310044
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Barium	---	U	1.00	ug/L	B310044
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Beryllium	---	U	1.00	ug/L	B310044
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Cadmium	---	U	1.00	ug/L	B310044
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Chromium	---	U	2.00	ug/L	B310044
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Copper	---	U	1.00	ug/L	B310044
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Lead	---	U	1.00	ug/L	B310044
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Selenium	---	U	1.00	ug/L	B310044
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Thallium	---	U	1.00	ug/L	B310044
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Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041
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Field ID: 28726-Blank-4

Sample ID: 2310017-04

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044
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Arsenic	---	U	1.00	ug/L	B310044
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Barium	---	U	1.00	ug/L	B310044
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Beryllium	---	U	1.00	ug/L	B310044
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Cadmium	---	U	1.00	ug/L	B310044
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Chromium	---	U	2.00	ug/L	B310044
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Copper	---	U	1.00	ug/L	B310044
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Lead	---	U	1.00	ug/L	B310044
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Selenium	---	U	1.00	ug/L	B310044
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Thallium	---	U	1.00	ug/L	B310044
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Field ID: 28726-Blank-4

Sample ID: 2310017-04

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 42370-Blank-5

Sample ID: 2310017-05

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	---	U	1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	---	U	1.00	ug/L	B310044	
Lead	---	U	1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 28735-Blank-6

Sample ID: 2310017-06

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	---	U	1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	---	U	1.00	ug/L	B310044	
Lead	---	U	1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: 28620-Blank-7

Sample ID: 2310017-07

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	---	U	1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	---	U	1.00	ug/L	B310044	
Lead	---	U	1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Field ID: 28357-Blank-8

Sample ID: 2310017-08

Metals ICPMS

Antimony	---	U	1.00	ug/L	B310044	
Arsenic	---	U	1.00	ug/L	B310044	
Barium	---	U	1.00	ug/L	B310044	
Beryllium	---	U	1.00	ug/L	B310044	
Cadmium	---	U	1.00	ug/L	B310044	
Chromium	---	U	2.00	ug/L	B310044	
Copper	---	U	1.00	ug/L	B310044	
Lead	---	U	1.00	ug/L	B310044	
Selenium	---	U	1.00	ug/L	B310044	
Thallium	---	U	1.00	ug/L	B310044	

Mercury CVAA

Mercury	---	U	0.050	ug/L	B310041	
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Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310030

Blank (B310030-BLK1)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						

Blank (B310030-BLK2)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						

Blank (B310030-BLK3)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						



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Metals ICPMS - Quality Control

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Batch B310030

LCS (B310030-BS1)

Antimony	47.5	1.00	ug/L	50.00		95.0	85-115		
Arsenic	46.7	1.00	ug/L	50.00		93.5	85-115		
Barium	46.0	1.00	ug/L	50.00		92.0	85-115		
Beryllium	49.3	1.00	ug/L	50.00		98.7	85-115		
Cadmium	45.6	1.00	ug/L	50.00		91.2	85-115		
Chromium	48.9	2.00	ug/L	50.00		97.8	85-115		
Copper	48.9	1.00	ug/L	50.00		97.7	85-115		
Lead	48.8	1.00	ug/L	50.00		97.7	85-115		
Selenium	48.8	1.00	ug/L	50.00		97.7	85-115		
Thallium	47.5	1.00	ug/L	50.00		95.0	85-115		

LCS (B310030-BS2)

Antimony	47.8	1.00	ug/L	50.00		95.5	85-115		
Arsenic	46.5	1.00	ug/L	50.00		93.0	85-115		
Barium	46.0	1.00	ug/L	50.00		92.0	85-115		
Beryllium	50.1	1.00	ug/L	50.00		100	85-115		
Cadmium	44.8	1.00	ug/L	50.00		89.7	85-115		
Chromium	49.4	2.00	ug/L	50.00		98.8	85-115		
Copper	48.9	1.00	ug/L	50.00		97.9	85-115		
Lead	48.8	1.00	ug/L	50.00		97.6	85-115		
Selenium	48.9	1.00	ug/L	50.00		97.7	85-115		
Thallium	47.8	1.00	ug/L	50.00		95.5	85-115		

LCS (B310030-BS3)

Antimony	47.2	1.00	ug/L	50.00		94.4	85-115		
Arsenic	45.9	1.00	ug/L	50.00		91.8	85-115		
Barium	44.7	1.00	ug/L	50.00		89.4	85-115		
Beryllium	49.6	1.00	ug/L	50.00		99.3	85-115		
Cadmium	44.1	1.00	ug/L	50.00		88.2	85-115		
Chromium	48.8	2.00	ug/L	50.00		97.6	85-115		
Copper	48.6	1.00	ug/L	50.00		97.2	85-115		
Lead	48.6	1.00	ug/L	50.00		97.3	85-115		
Selenium	48.1	1.00	ug/L	50.00		96.2	85-115		
Thallium	47.7	1.00	ug/L	50.00		95.5	85-115		



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Metals ICPMS - Quality Control

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Batch B310030

LCS Dup (B310030-BSD1)

Antimony	47.9	1.00	ug/L	50.00		95.9	85-115	0.916	20
Arsenic	46.7	1.00	ug/L	50.00		93.5	85-115	0.0321	20
Barium	46.4	1.00	ug/L	50.00		92.9	85-115	0.930	20
Beryllium	49.8	1.00	ug/L	50.00		99.5	85-115	0.858	20
Cadmium	45.7	1.00	ug/L	50.00		91.3	85-115	0.0855	20
Chromium	49.7	2.00	ug/L	50.00		99.3	85-115	1.53	20
Copper	48.6	1.00	ug/L	50.00		97.3	85-115	0.455	20
Lead	48.9	1.00	ug/L	50.00		97.9	85-115	0.174	20
Selenium	48.4	1.00	ug/L	50.00		96.8	85-115	0.903	20
Thallium	47.6	1.00	ug/L	50.00		95.2	85-115	0.168	20

LCS Dup (B310030-BSD2)

Antimony	47.6	1.00	ug/L	50.00		95.2	85-115	0.352	20
Arsenic	46.3	1.00	ug/L	50.00		92.5	85-115	0.505	20
Barium	45.3	1.00	ug/L	50.00		90.6	85-115	1.50	20
Beryllium	49.7	1.00	ug/L	50.00		99.5	85-115	0.643	20
Cadmium	45.0	1.00	ug/L	50.00		89.9	85-115	0.281	20
Chromium	48.8	2.00	ug/L	50.00		97.5	85-115	1.28	20
Copper	48.7	1.00	ug/L	50.00		97.4	85-115	0.504	20
Lead	48.7	1.00	ug/L	50.00		97.3	85-115	0.320	20
Selenium	48.8	1.00	ug/L	50.00		97.7	85-115	0.0389	20
Thallium	47.7	1.00	ug/L	50.00		95.3	85-115	0.180	20

LCS Dup (B310030-BSD3)

Antimony	47.3	1.00	ug/L	50.00		94.6	85-115	0.262	20
Arsenic	45.7	1.00	ug/L	50.00		91.5	85-115	0.412	20
Barium	44.6	1.00	ug/L	50.00		89.1	85-115	0.336	20
Beryllium	49.6	1.00	ug/L	50.00		99.3	85-115	0.0141	20
Cadmium	44.2	1.00	ug/L	50.00		88.5	85-115	0.342	20
Chromium	48.4	2.00	ug/L	50.00		96.7	85-115	0.928	20
Copper	48.2	1.00	ug/L	50.00		96.5	85-115	0.717	20
Lead	48.3	1.00	ug/L	50.00		96.7	85-115	0.641	20
Selenium	48.1	1.00	ug/L	50.00		96.1	85-115	0.143	20
Thallium	47.6	1.00	ug/L	50.00		95.1	85-115	0.363	20



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Final Report

Project: St. Croix DW Study - 2309064

Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310030

Matrix Spike (B310030-MS1)

Source: 2309064-01

Antimony	50.6	1.00	ug/L	50.00	ND	101	80-120		
Arsenic	48.4	1.00	ug/L	50.00	ND	96.9	80-120		
Barium	47.0	1.00	ug/L	50.00	0.886	92.3	80-120		
Beryllium	52.3	1.00	ug/L	50.00	ND	105	80-120		
Cadmium	46.3	1.00	ug/L	50.00	ND	92.6	80-120		
Chromium	48.4	2.00	ug/L	50.00	ND	96.8	80-120		
Copper	50.9	1.00	ug/L	50.00	4.51	92.9	80-120		
Lead	50.3	1.00	ug/L	50.00	ND	101	80-120		
Selenium	50.9	1.00	ug/L	50.00	ND	102	80-120		
Thallium	48.5	1.00	ug/L	50.00	ND	97.1	80-120		

Matrix Spike (B310030-MS2)

Source: 2309064-13

Antimony	49.0	1.00	ug/L	50.00	ND	97.9	80-120		
Arsenic	48.0	1.00	ug/L	50.00	0.054	95.9	80-120		
Barium	50.5	1.00	ug/L	50.00	5.21	90.5	80-120		
Beryllium	51.7	1.00	ug/L	50.00	ND	103	80-120		
Cadmium	45.1	1.00	ug/L	50.00	ND	90.2	80-120		
Chromium	47.8	2.00	ug/L	50.00	ND	95.6	80-120		
Copper	61.3	1.00	ug/L	50.00	15.1	92.5	80-120		
Lead	52.4	1.00	ug/L	50.00	2.94	99.0	80-120		
Selenium	50.5	1.00	ug/L	50.00	0.176	101	80-120		
Thallium	48.3	1.00	ug/L	50.00	ND	96.7	80-120		

Matrix Spike (B310030-MS3)

Source: 2309064-25

Antimony	49.6	1.00	ug/L	50.00	ND	99.2	80-120		
Arsenic	47.9	1.00	ug/L	50.00	0.073	95.6	80-120		
Barium	46.5	1.00	ug/L	50.00	1.15	90.7	80-120		
Beryllium	52.5	1.00	ug/L	50.00	ND	105	80-120		
Cadmium	45.1	1.00	ug/L	50.00	ND	90.3	80-120		
Chromium	48.1	2.00	ug/L	50.00	ND	96.3	80-120		
Copper	97.9	1.00	ug/L	50.00	53.4	89.0	80-120		
Lead	56.2	1.00	ug/L	50.00	5.73	101	80-120		
Selenium	50.4	1.00	ug/L	50.00	0.150	100	80-120		
Thallium	49.1	1.00	ug/L	50.00	ND	98.2	80-120		



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Project: St. Croix DW Study - 2309064

Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310030

Matrix Spike (B310030-MS4)

Source: 2309064-41

Antimony	49.9	1.00	ug/L	50.00	ND	99.8	80-120		
Arsenic	48.2	1.00	ug/L	50.00	0.029	96.4	80-120		
Barium	46.2	1.00	ug/L	50.00	0.793	90.9	80-120		
Beryllium	51.9	1.00	ug/L	50.00	ND	104	80-120		
Cadmium	45.4	1.00	ug/L	50.00	ND	90.8	80-120		
Chromium	48.2	2.00	ug/L	50.00	ND	96.5	80-120		
Copper	70.7	1.00	ug/L	50.00	25.3	90.8	80-120		
Lead	51.3	1.00	ug/L	50.00	1.40	99.8	80-120		
Selenium	50.5	1.00	ug/L	50.00	ND	101	80-120		
Thallium	48.4	1.00	ug/L	50.00	ND	96.8	80-120		

Matrix Spike (B310030-MS5)

Source: 2309064-69

Antimony	49.1	1.00	ug/L	50.00	ND	98.1	80-120		
Arsenic	47.3	1.00	ug/L	50.00	0.217	94.1	80-120		
Barium	47.3	1.00	ug/L	50.00	3.05	88.5	80-120		
Beryllium	51.5	1.00	ug/L	50.00	ND	103	80-120		
Cadmium	44.7	1.00	ug/L	50.00	ND	89.4	80-120		
Chromium	47.6	2.00	ug/L	50.00	ND	95.1	80-120		
Copper	49.0	1.00	ug/L	50.00	3.05	91.9	80-120		
Lead	49.8	1.00	ug/L	50.00	ND	99.6	80-120		
Selenium	50.2	1.00	ug/L	50.00	0.883	98.7	80-120		
Thallium	48.6	1.00	ug/L	50.00	ND	97.1	80-120		

Matrix Spike (B310030-MS6)

Source: 2309064-88

Antimony	49.5	1.00	ug/L	50.00	ND	99.0	80-120		
Arsenic	46.9	1.00	ug/L	50.00	0.176	93.4	80-120		
Barium	45.7	1.00	ug/L	50.00	1.04	89.4	80-120		
Beryllium	51.7	1.00	ug/L	50.00	ND	103	80-120		
Cadmium	44.7	1.00	ug/L	50.00	ND	89.4	80-120		
Chromium	47.9	2.00	ug/L	50.00	ND	95.8	80-120		
Copper	196	1.00	ug/L	50.00	155	81.4	80-120		
Lead	232	1.00	ug/L	50.00	189	86.4	80-120		
Selenium	50.0	1.00	ug/L	50.00	0.732	98.5	80-120		
Thallium	48.5	1.00	ug/L	50.00	ND	97.0	80-120		



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: St. Croix DW Study - 2309064

Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310032

Blank (B310032-BLK1)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						

LCS (B310032-BS1)

Antimony	50.8	1.00	ug/L	50.00		102	85-115		
Arsenic	47.8	1.00	ug/L	50.00		95.6	85-115		
Barium	47.1	1.00	ug/L	50.00		94.1	85-115		
Beryllium	52.4	1.00	ug/L	50.00		105	85-115		
Cadmium	47.6	1.00	ug/L	50.00		95.2	85-115		
Chromium	52.5	2.00	ug/L	50.00		105	85-115		
Copper	49.6	1.00	ug/L	50.00		99.2	85-115		
Lead	51.6	1.00	ug/L	50.00		103	85-115		
Selenium	49.9	1.00	ug/L	50.00		99.9	85-115		
Thallium	49.3	1.00	ug/L	50.00		98.6	85-115		

LCS Dup (B310032-BSD1)

Antimony	50.3	1.00	ug/L	50.00		101	85-115	0.931	20
Arsenic	47.5	1.00	ug/L	50.00		95.0	85-115	0.600	20
Barium	46.9	1.00	ug/L	50.00		93.8	85-115	0.292	20
Beryllium	51.4	1.00	ug/L	50.00		103	85-115	1.95	20
Cadmium	47.1	1.00	ug/L	50.00		94.2	85-115	0.971	20
Chromium	52.0	2.00	ug/L	50.00		104	85-115	0.844	20
Copper	49.3	1.00	ug/L	50.00		98.6	85-115	0.599	20
Lead	51.4	1.00	ug/L	50.00		103	85-115	0.281	20
Selenium	49.3	1.00	ug/L	50.00		98.6	85-115	1.31	20
Thallium	49.9	1.00	ug/L	50.00		99.8	85-115	1.24	20



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: St. Croix DW Study - 2309064

Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310032

Matrix Spike (B310032-MS1)

Source: 2309064-04

Antimony	51.1	1.00	ug/L	50.00	ND	102	80-120		
Arsenic	47.5	1.00	ug/L	50.00	ND	95.0	80-120		
Barium	48.3	1.00	ug/L	50.00	2.27	92.1	80-120		
Beryllium	50.1	1.00	ug/L	50.00	ND	100	80-120		
Cadmium	46.5	1.00	ug/L	50.00	ND	93.1	80-120		
Chromium	50.7	2.00	ug/L	50.00	0.368	101	80-120		
Copper	56.2	1.00	ug/L	50.00	9.66	93.1	80-120		
Lead	51.6	1.00	ug/L	50.00	0.649	102	80-120		
Selenium	48.0	1.00	ug/L	50.00	ND	96.0	80-120		
Thallium	49.5	1.00	ug/L	50.00	0.571	97.8	80-120		

Matrix Spike (B310032-MS2)

Source: 2309064-37

Antimony	51.3	1.00	ug/L	50.00	ND	103	80-120		
Arsenic	47.2	1.00	ug/L	50.00	0.818	92.7	80-120		
Barium	53.0	1.00	ug/L	50.00	6.91	92.2	80-120		
Beryllium	49.4	1.00	ug/L	50.00	0.055	98.6	80-120		
Cadmium	46.8	1.00	ug/L	50.00	0.109	93.4	80-120		
Chromium	51.6	2.00	ug/L	50.00	1.42	100	80-120		
Copper	852	5.00	ug/L	50.00	825	54.4	80-120		
Lead	120	1.00	ug/L	50.00	68.2	104	80-120		
Selenium	46.7	1.00	ug/L	50.00	ND	93.3	80-120		
Thallium	49.3	1.00	ug/L	50.00	ND	98.5	80-120		

Batch B310034

Blank (B310034-BLK1)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						

U.S.E.P.A Region 2 Laboratory

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 10/12/2023



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory**

Final Report

Project: St. Croix DW Study - 2309064

Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310034

Blank (B310034-BLK2)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						

LCS (B310034-BS1)

Antimony	50.5	1.00	ug/L	50.00		101	85-115		
Arsenic	47.3	1.00	ug/L	50.00		94.7	85-115		
Barium	46.5	1.00	ug/L	50.00		93.0	85-115		
Beryllium	49.6	1.00	ug/L	50.00		99.3	85-115		
Cadmium	46.7	1.00	ug/L	50.00		93.5	85-115		
Chromium	52.2	2.00	ug/L	50.00		104	85-115		
Copper	49.6	1.00	ug/L	50.00		99.1	85-115		
Lead	52.0	1.00	ug/L	50.00		104	85-115		
Selenium	48.9	1.00	ug/L	50.00		97.8	85-115		
Thallium	49.9	1.00	ug/L	50.00		99.9	85-115		

LCS (B310034-BS2)

Antimony	50.6	1.00	ug/L	50.00		101	85-115		
Arsenic	47.1	1.00	ug/L	50.00		94.3	85-115		
Barium	46.4	1.00	ug/L	50.00		92.8	85-115		
Beryllium	51.7	1.00	ug/L	50.00		103	85-115		
Cadmium	47.3	1.00	ug/L	50.00		94.5	85-115		
Chromium	52.1	2.00	ug/L	50.00		104	85-115		
Copper	48.4	1.00	ug/L	50.00		96.9	85-115		
Lead	51.3	1.00	ug/L	50.00		103	85-115		
Selenium	49.4	1.00	ug/L	50.00		98.8	85-115		
Thallium	49.6	1.00	ug/L	50.00		99.3	85-115		



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Project: St. Croix DW Study - 2309064

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Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310034

LCS Dup (B310034-BSD1)

Antimony	50.6	1.00	ug/L	50.00		101	85-115	0.182	20
Arsenic	47.0	1.00	ug/L	50.00		93.9	85-115	0.804	20
Barium	45.8	1.00	ug/L	50.00		91.6	85-115	1.52	20
Beryllium	49.4	1.00	ug/L	50.00		98.8	85-115	0.458	20
Cadmium	46.0	1.00	ug/L	50.00		92.0	85-115	1.55	20
Chromium	51.7	2.00	ug/L	50.00		103	85-115	1.11	20
Copper	48.9	1.00	ug/L	50.00		97.7	85-115	1.41	20
Lead	51.1	1.00	ug/L	50.00		102	85-115	1.77	20
Selenium	48.5	1.00	ug/L	50.00		97.0	85-115	0.778	20
Thallium	49.8	1.00	ug/L	50.00		99.5	85-115	0.337	20

LCS Dup (B310034-BSD2)

Antimony	50.8	1.00	ug/L	50.00		102	85-115	0.394	20
Arsenic	47.0	1.00	ug/L	50.00		94.1	85-115	0.210	20
Barium	46.2	1.00	ug/L	50.00		92.5	85-115	0.406	20
Beryllium	52.1	1.00	ug/L	50.00		104	85-115	0.884	20
Cadmium	47.4	1.00	ug/L	50.00		94.8	85-115	0.332	20
Chromium	52.4	2.00	ug/L	50.00		105	85-115	0.633	20
Copper	48.3	1.00	ug/L	50.00		96.7	85-115	0.176	20
Lead	51.6	1.00	ug/L	50.00		103	85-115	0.631	20
Selenium	49.3	1.00	ug/L	50.00		98.6	85-115	0.160	20
Thallium	49.5	1.00	ug/L	50.00		99.1	85-115	0.206	20

Matrix Spike (B310034-MS1)

Source: 2309064-56

Antimony	50.9	1.00	ug/L	50.00	0.361	101	80-120		
Arsenic	46.8	1.00	ug/L	50.00	0.056	93.4	80-120		
Barium	46.6	1.00	ug/L	50.00	1.20	90.8	80-120		
Beryllium	48.9	1.00	ug/L	50.00	ND	97.8	80-120		
Cadmium	45.9	1.00	ug/L	50.00	ND	91.9	80-120		
Chromium	50.4	2.00	ug/L	50.00	0.428	99.9	80-120		
Copper	2210	10.0	ug/L	50.00	2170	88.0	80-120		
Lead	125	1.00	ug/L	50.00	73.9	103	80-120		
Selenium	46.5	1.00	ug/L	50.00	ND	92.9	80-120		
Thallium	49.3	1.00	ug/L	50.00	0.549	97.5	80-120		



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310034

Matrix Spike (B310034-MS2)

Source: 2309064-71

Antimony	50.9	1.00	ug/L	50.00	ND	102	80-120		
Arsenic	46.1	1.00	ug/L	50.00	ND	92.3	80-120		
Barium	45.7	1.00	ug/L	50.00	1.05	89.4	80-120		
Beryllium	48.4	1.00	ug/L	50.00	ND	96.9	80-120		
Cadmium	45.1	1.00	ug/L	50.00	ND	90.2	80-120		
Chromium	49.9	2.00	ug/L	50.00	0.295	99.2	80-120		
Copper	79.1	1.00	ug/L	50.00	32.9	92.4	80-120		
Lead	64.2	1.00	ug/L	50.00	11.7	105	80-120		
Selenium	46.2	1.00	ug/L	50.00	ND	92.3	80-120		
Thallium	49.1	1.00	ug/L	50.00	ND	98.2	80-120		

Matrix Spike (B310034-MS3)

Source: 2309064-90

Antimony	52.8	1.00	ug/L	50.00	0.609	104	80-120		
Arsenic	46.4	1.00	ug/L	50.00	0.658	91.6	80-120		
Barium	66.3	1.00	ug/L	50.00	21.7	89.1	80-120		
Beryllium	48.7	1.00	ug/L	50.00	0.073	97.2	80-120		
Cadmium	47.1	1.00	ug/L	50.00	0.107	94.0	80-120		
Chromium	52.1	2.00	ug/L	50.00	1.78	101	80-120		
Copper	22400	1.00	ug/L	50.00	24600	NR	80-120		
Lead	435	1.00	ug/L	50.00	424	22.3	80-120		
Selenium	46.1	1.00	ug/L	50.00	ND	92.2	80-120		
Thallium	41.2	1.00	ug/L	50.00	ND	82.3	80-120		

Batch B310044

Blank (B310044-BLK1)

Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- U	1.00	ug/L						
Beryllium	--- U	1.00	ug/L						
Cadmium	--- U	1.00	ug/L						
Chromium	--- U	2.00	ug/L						
Copper	--- U	1.00	ug/L						
Lead	--- U	1.00	ug/L						
Selenium	--- U	1.00	ug/L						
Thallium	--- U	1.00	ug/L						

U.S.E.P.A Region 2 Laboratory

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
Reported: 10/12/2023



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory**

Final Report

Project: St. Croix DW Study - 2309064

Project Number: 2309064

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310044

LCS (B310044-BS1)

Antimony	47.5	1.00	ug/L	50.00		95.0	85-115		
Arsenic	46.1	1.00	ug/L	50.00		92.1	85-115		
Barium	45.8	1.00	ug/L	50.00		91.6	85-115		
Beryllium	49.4	1.00	ug/L	50.00		98.9	85-115		
Cadmium	45.1	1.00	ug/L	50.00		90.2	85-115		
Chromium	48.8	2.00	ug/L	50.00		97.7	85-115		
Copper	48.7	1.00	ug/L	50.00		97.4	85-115		
Lead	47.3	1.00	ug/L	50.00		94.6	85-115		
Selenium	47.9	1.00	ug/L	50.00		95.9	85-115		
Thallium	46.9	1.00	ug/L	50.00		93.8	85-115		

LCS Dup (B310044-BSD1)

Antimony	47.7	1.00	ug/L	50.00		95.4	85-115	0.414	20
Arsenic	46.3	1.00	ug/L	50.00		92.5	85-115	0.461	20
Barium	45.7	1.00	ug/L	50.00		91.5	85-115	0.155	20
Beryllium	49.6	1.00	ug/L	50.00		99.3	85-115	0.420	20
Cadmium	44.9	1.00	ug/L	50.00		89.9	85-115	0.404	20
Chromium	49.0	2.00	ug/L	50.00		98.1	85-115	0.386	20
Copper	48.9	1.00	ug/L	50.00		97.8	85-115	0.346	20
Lead	48.1	1.00	ug/L	50.00		96.2	85-115	1.67	20
Selenium	48.4	1.00	ug/L	50.00		96.8	85-115	0.909	20
Thallium	48.0	1.00	ug/L	50.00		95.9	85-115	2.19	20

Matrix Spike (B310044-MS1)

Source: 2309064-AH

Antimony	49.2	1.00	ug/L	50.00	ND	98.4	80-120		
Arsenic	47.5	1.00	ug/L	50.00	0.110	94.7	80-120		
Barium	49.1	1.00	ug/L	50.00	3.65	90.9	80-120		
Beryllium	50.4	1.00	ug/L	50.00	ND	101	80-120		
Cadmium	45.4	1.00	ug/L	50.00	ND	90.9	80-120		
Chromium	47.4	2.00	ug/L	50.00	ND	94.9	80-120		
Copper	53.0	1.00	ug/L	50.00	7.61	90.8	80-120		
Lead	50.1	1.00	ug/L	50.00	2.02	96.2	80-120		
Selenium	50.2	1.00	ug/L	50.00	0.485	99.5	80-120		
Thallium	47.6	1.00	ug/L	50.00	ND	95.3	80-120		



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Project: St. Croix DW Study - 2309064

Project Number: 2309064

Mercury CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310031									
Blank (B310031-BLK1)									
Mercury	--- U	0.050	ug/L						
Blank (B310031-BLK2)									
Mercury	--- U	0.050	ug/L						
LCS (B310031-BS1)									
Mercury	0.975	0.050	ug/L	1.000		97.5	85-115		
LCS (B310031-BS2)									
Mercury	1.00	0.050	ug/L	1.000		100	85-115		
LCS Dup (B310031-BSD1)									
Mercury	0.956	0.050	ug/L	1.000		95.6	85-115	1.97	20
LCS Dup (B310031-BSD2)									
Mercury	1.00	0.050	ug/L	1.000		100	85-115	0.00	20
Matrix Spike (B310031-MS1) Source: 2309064-01									
Mercury	0.949	0.050	ug/L	1.000	0.022	92.7	80-120		
Matrix Spike (B310031-MS2) Source: 2309064-11									
Mercury	0.956	0.050	ug/L	1.000	0.024	93.2	80-120		
Matrix Spike (B310031-MS3) Source: 2309064-21									
Mercury	1.00	0.050	ug/L	1.000	0.023	97.7	80-120		
Matrix Spike (B310031-MS4) Source: 2309064-31									
Mercury	1.02	0.050	ug/L	1.000	0.022	99.8	80-120		



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Mercury CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310033									
Blank (B310033-BLK1)									
Mercury	--- U	0.050	ug/L						
Blank (B310033-BLK2)									
Mercury	--- U	0.050	ug/L						
LCS (B310033-BS1)									
Mercury	1.02	0.050	ug/L	1.000		102	85-115		
LCS (B310033-BS2)									
Mercury	0.998	0.050	ug/L	1.000		99.8	85-115		
LCS Dup (B310033-BSD1)									
Mercury	1.03	0.050	ug/L	1.000		103	85-115	0.976	20
LCS Dup (B310033-BSD2)									
Mercury	0.987	0.050	ug/L	1.000		98.7	85-115	1.11	20
Matrix Spike (B310033-MS1) Source: 2309064-41									
Mercury	1.00	0.050	ug/L	1.000	0.027	97.3	80-120		
Matrix Spike (B310033-MS2) Source: 2309064-51									
Mercury	0.994	0.050	ug/L	1.000	0.016	97.8	80-120		
Matrix Spike (B310033-MS3) Source: 2309064-61									
Mercury	0.993	0.050	ug/L	1.000	ND	99.3	80-120		
Matrix Spike (B310033-MS4) Source: 2309064-71									
Mercury	1.00	0.050	ug/L	1.000	0.009	99.1	80-120		



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Mercury CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310035									
Blank (B310035-BLK1)									
Mercury	--- U	0.050	ug/L						
LCS (B310035-BS1)									
Mercury	1.02	0.050	ug/L	1.000		102	85-115		
LCS Dup (B310035-BSD1)									
Mercury	0.999	0.050	ug/L	1.000		99.9	85-115	2.08	20
Matrix Spike (B310035-MS1) Source: 2309064-81									
Mercury	1.00	0.050	ug/L	1.000	ND	100	80-120		
Matrix Spike (B310035-MS2) Source: 2309064-91									
Mercury	1.00	0.050	ug/L	1.000	ND	100	80-120		
Batch B310041									
Blank (B310041-BLK1)									
Mercury	--- U	0.050	ug/L						
LCS (B310041-BS1)									
Mercury	0.975	0.050	ug/L	1.000		97.5	85-115		
LCS Dup (B310041-BSD1)									
Mercury	0.960	0.050	ug/L	1.000		96.0	85-115	1.55	20
Matrix Spike (B310041-MS1) Source: 2309064-AB									
Mercury	0.976	0.050	ug/L	1.000	ND	97.6	80-120		



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Mercury CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310041									
Matrix Spike (B310041-MS2)									
Source: 2309064-AC									
Mercury	0.978	0.050	ug/L	1.000	ND	97.8	80-120		