



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Region 2 Laboratory  
2890 Woodbridge Avenue  
Edison , New Jersey 08837  
732-906-6886 Phone  
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November 20, 2023

Thuan Tran  
Monitoring & Assessment Branch  
US EPA/DESA/MAB  
Edison, NJ 08837

RE: US VI Drinking Water - 2311021

Enclosed are the results of analyses for samples received by the laboratory between 11/10/2023 and 11/15/2023. 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 2311021 and contact the laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon".

John R. Bourbon  
Chief, LSASD/LB



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**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.



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Reporting Limit(s):

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



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**SUMMARY REPORT FOR SAMPLES**

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
	2311021-01	Aqueous	11/07/2023 10:36	11/10/2023 10:30
	2311021-02	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-03	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-04	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-05	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-06	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-07	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-08	Aqueous	11/07/2023 10:37	11/10/2023 10:30
	2311021-09	Aqueous	11/07/2023 10:38	11/10/2023 10:30
	2311021-10	Aqueous	11/07/2023 10:38	11/10/2023 10:30
	2311021-11	Aqueous	11/07/2023 11:18	11/10/2023 10:30
	2311021-12	Aqueous	11/07/2023 11:18	11/10/2023 10:30
	2311021-13	Aqueous	11/07/2023 11:19	11/10/2023 10:30
	2311021-14	Aqueous	11/07/2023 11:19	11/10/2023 10:30
	2311021-15	Aqueous	11/07/2023 11:19	11/10/2023 10:30
	2311021-16	Aqueous	11/07/2023 11:19	11/10/2023 10:30
	2311021-17	Aqueous	11/07/2023 11:19	11/10/2023 10:30
	2311021-18	Aqueous	11/07/2023 11:19	11/10/2023 10:30
	2311021-19	Aqueous	11/07/2023 11:20	11/10/2023 10:30
	2311021-20	Aqueous	11/07/2023 11:20	11/10/2023 10:30
	2311021-21	Aqueous	11/07/2023 17:58	11/10/2023 10:30
	2311021-22	Aqueous	11/07/2023 17:58	11/10/2023 10:30
	2311021-23	Aqueous	11/07/2023 17:58	11/10/2023 10:30
	2311021-24	Aqueous	11/07/2023 17:59	11/10/2023 10:30
	2311021-25	Aqueous	11/07/2023 17:59	11/10/2023 10:30
	2311021-26	Aqueous	11/07/2023 17:59	11/10/2023 10:30
	2311021-27	Aqueous	11/07/2023 17:59	11/10/2023 10:30
	2311021-28	Aqueous	11/07/2023 17:59	11/10/2023 10:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Final Report

Project: US VI Drinking Water - 2311021

Project Number: 2311021

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
	2311021-29	Aqueous	11/07/2023 17:59	11/10/2023 10:30
	2311021-30	Aqueous	11/07/2023 17:59	11/10/2023 10:30
	2311021-31	Aqueous	11/08/2023 06:11	11/10/2023 10:30
	2311021-32	Aqueous	11/08/2023 06:12	11/10/2023 10:30
	2311021-33	Aqueous	11/08/2023 06:12	11/10/2023 10:30
	2311021-34	Aqueous	11/08/2023 06:12	11/10/2023 10:30
	2311021-35	Aqueous	11/08/2023 06:12	11/10/2023 10:30
	2311021-36	Aqueous	11/08/2023 06:13	11/10/2023 10:30
	2311021-37	Aqueous	11/08/2023 06:13	11/10/2023 10:30
	2311021-38	Aqueous	11/08/2023 06:13	11/10/2023 10:30
	2311021-39	Aqueous	11/08/2023 06:15	11/10/2023 10:30
	2311021-40	Aqueous	11/08/2023 06:16	11/10/2023 10:30
	2311021-41	Aqueous	11/08/2023 10:04	11/10/2023 10:30
	2311021-42	Aqueous	11/08/2023 10:04	11/10/2023 10:30
	2311021-43	Aqueous	11/08/2023 10:04	11/10/2023 10:30
	2311021-44	Aqueous	11/08/2023 10:04	11/10/2023 10:30
	2311021-45	Aqueous	11/08/2023 10:04	11/10/2023 10:30
	2311021-46	Aqueous	11/08/2023 10:05	11/10/2023 10:30
	2311021-47	Aqueous	11/08/2023 10:05	11/10/2023 10:30
	2311021-48	Aqueous	11/08/2023 15:26	11/10/2023 10:30
	2311021-49	Aqueous	11/08/2023 15:26	11/10/2023 10:30
	2311021-51	Aqueous	11/08/2023 15:26	11/10/2023 10:30
	2311021-52	Aqueous	11/08/2023 15:26	11/10/2023 10:30
	2311021-53	Aqueous	11/08/2023 15:27	11/10/2023 10:30
	2311021-54	Aqueous	11/08/2023 15:27	11/10/2023 10:30
	2311021-55	Aqueous	11/08/2023 15:27	11/10/2023 10:30
	2311021-56	Aqueous	11/08/2023 15:27	11/10/2023 10:30
	2311021-57	Aqueous	11/08/2023 15:27	11/10/2023 10:30
	2311021-58	Aqueous	11/08/2023 15:28	11/10/2023 10:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Final Report

Project: US VI Drinking Water - 2311021

Project Number: 2311021

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
	2311021-59	Aqueous	11/08/2023 15:28	11/10/2023 10:30
	2311021-60	Aqueous	11/08/2023 15:28	11/10/2023 10:30
	2311021-61	Aqueous	11/08/2023 15:28	11/10/2023 10:30
	2311021-62	Aqueous	11/08/2023 16:34	11/10/2023 10:30
	2311021-63	Aqueous	11/08/2023 16:34	11/10/2023 10:30
	2311021-64	Aqueous	11/08/2023 16:34	11/10/2023 10:30
	2311021-65	Aqueous	11/08/2023 16:35	11/10/2023 10:30
	2311021-66	Aqueous	11/08/2023 16:35	11/10/2023 10:30
	2311021-67	Aqueous	11/08/2023 16:35	11/10/2023 10:30
	2311021-68	Aqueous	11/08/2023 16:35	11/10/2023 10:30
	2311021-69	Aqueous	11/08/2023 16:35	11/10/2023 10:30
	2311039-01	Aqueous	11/09/2023 08:27	11/15/2023 09:30
	2311039-02	Aqueous	11/09/2023 08:27	11/15/2023 09:30
	2311039-03	Aqueous	11/09/2023 08:27	11/15/2023 09:30
	2311039-04	Aqueous	11/09/2023 08:27	11/15/2023 09:30
	2311039-05	Aqueous	11/09/2023 08:27	11/15/2023 09:30
	2311039-06	Aqueous	11/09/2023 08:27	11/15/2023 09:30
	2311039-07	Aqueous	11/09/2023 08:28	11/15/2023 09:30
	2311039-08	Aqueous	11/09/2023 08:28	11/15/2023 09:30
	2311039-09	Aqueous	11/09/2023 08:28	11/15/2023 09:30
	2311039-10	Aqueous	11/09/2023 08:28	11/15/2023 09:30
	2311039-11	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-12	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-13	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-14	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-15	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-16	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-17	Aqueous	11/09/2023 13:24	11/15/2023 09:30



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**SUMMARY REPORT FOR SAMPLES**

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
	2311039-18	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-19	Aqueous	11/09/2023 13:24	11/15/2023 09:30
	2311039-20	Aqueous	11/09/2023 13:25	11/15/2023 09:30
	2311039-21	Aqueous	11/09/2023 13:25	11/15/2023 09:30
	2311039-22	Aqueous	11/09/2023 13:25	11/15/2023 09:30
	2311039-23	Aqueous	11/09/2023 13:25	11/15/2023 09:30
	2311039-24	Aqueous	11/09/2023 13:25	11/15/2023 09:30
	2311039-25	Aqueous	11/09/2023 13:26	11/15/2023 09:30
	2311039-26	Aqueous	11/09/2023 13:26	11/15/2023 09:30
	2311039-27	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-28	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-29	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-30	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-31	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-32	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-33	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-34	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-35	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-36	Aqueous	11/09/2023 14:07	11/15/2023 09:30
	2311039-37	Aqueous	11/09/2023 14:08	11/15/2023 09:30
	2311039-38	Aqueous	11/09/2023 14:08	11/15/2023 09:30
	2311039-39	Aqueous	11/09/2023 14:09	11/15/2023 09:30
	2311039-40	Aqueous	11/09/2023 14:34	11/15/2023 09:30
	2311039-41	Aqueous	11/09/2023 14:34	11/15/2023 09:30
	2311039-42	Aqueous	11/09/2023 14:34	11/15/2023 09:30
	2311039-43	Aqueous	11/09/2023 14:34	11/15/2023 09:30
	2311039-44	Aqueous	11/09/2023 14:35	11/15/2023 09:30
	2311039-45	Aqueous	11/09/2023 14:35	11/15/2023 09:30
	2311039-46	Aqueous	11/09/2023 14:35	11/15/2023 09:30



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**SUMMARY REPORT FOR SAMPLES**

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
	2311039-47	Aqueous	11/09/2023 14:35	11/15/2023 09:30
	2311039-48	Aqueous	11/09/2023 14:35	11/15/2023 09:30
	2311039-49	Aqueous	11/09/2023 14:36	11/15/2023 09:30
	2311039-50	Aqueous	11/09/2023 14:36	11/15/2023 09:30
	2311039-51	Aqueous	11/09/2023 14:36	11/15/2023 09:30
	2311039-52	Aqueous	11/09/2023 14:36	11/15/2023 09:30
	2311039-53	Aqueous	11/09/2023 14:36	11/15/2023 09:30
	2311039-54	Aqueous	11/09/2023 14:37	11/15/2023 09:30





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**SUMMARY REPORT FOR METHODS**

<b>Analysis</b>	<b>Method</b>	<b>Certification</b>	<b>Matrix</b>
Metals ICP TAL NPDES/DW	EPA 200.7 SOP C-109 Rev 3.7	NELAP	Aqueous
Metals ICPMS TAL NPDES/DW	EPA 200.8 SOP C-112 Rev 3.9	NELAP	Aqueous



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-01**

**Metals ICP**

Calcium	---	U	500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	2910		500	ug/L	B311077	
Potassium	3180		500	ug/L	B311077	
Sodium	2570		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	---	U	1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	---	U	1.00	ug/L	B311081	
Lead	---	U	1.00	ug/L	B311081	
Manganese	---	U	1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	---	U	2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-02**

**Metals ICP**

Calcium	6200		500	ug/L	B311077	
Iron	269		50.0	ug/L	B311077	
Magnesium	1060		500	ug/L	B311077	
Potassium	4460		500	ug/L	B311077	
Sodium	87500		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	287		20.0	ug/L	B311081	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-02**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311081	
Arsenic	1.28		1.00	ug/L	B311081	
Barium	3.59		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	135		1.00	ug/L	B311081	
Lead	13.9		1.00	ug/L	B311081	
Manganese	12.5		1.00	ug/L	B311081	
Nickel	9.47		1.00	ug/L	B311081	
Vanadium	1.17		1.00	ug/L	B311081	
Zinc	238		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-03**

**Metals ICP**

Calcium	4650		500	ug/L	B311077	
Iron	132		50.0	ug/L	B311077	
Magnesium	1040		500	ug/L	B311077	
Potassium	4450		500	ug/L	B311077	
Sodium	87800		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	243		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	1.28		1.00	ug/L	B311081	
Barium	2.64		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	41.5		1.00	ug/L	B311081	
Lead	5.76		1.00	ug/L	B311081	
Manganese	3.24		1.00	ug/L	B311081	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-03**

**Metals ICPMS**

Nickel	1.72		1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	54.9		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-04**

**Metals ICP**

Calcium	4410		500	ug/L	B311111	
Iron	469		50.0	ug/L	B311111	
Magnesium	1020		500	ug/L	B311111	
Potassium	4270		500	ug/L	B311111	
Sodium	85900		1000	ug/L	B311111	
Tin	---	U	10.0	ug/L	B311111	

**Metals ICPMS**

Aluminum	334		20.0	ug/L	B311105	
Antimony	---	U	1.00	ug/L	B311105	
Arsenic	---	U	1.00	ug/L	B311105	
Barium	2.64		1.00	ug/L	B311105	
Cadmium	---	U	1.00	ug/L	B311105	
Chromium	---	U	2.00	ug/L	B311105	
Copper	89.4		1.00	ug/L	B311105	
Lead	10.9		1.00	ug/L	B311105	
Manganese	7.95		1.00	ug/L	B311105	
Nickel	1.98		1.00	ug/L	B311105	
Vanadium	---	U	1.00	ug/L	B311105	
Zinc	94.8		2.00	ug/L	B311105	

**Field ID:** [REDACTED]

**Sample ID: 2311021-05**

**Metals ICP**

Calcium	3310		500	ug/L	B311077	
Iron	183		50.0	ug/L	B311077	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-05**

**Metals ICP**

Magnesium	1000		500	ug/L	B311077	
Potassium	4460		500	ug/L	B311077	
Sodium	88000		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	137		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	1.51		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	56.3		1.00	ug/L	B311081	
Lead	4.56		1.00	ug/L	B311081	
Manganese	3.02		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	40.1		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-06**

**Metals ICP**

Calcium	2900		500	ug/L	B311077	
Iron	149		50.0	ug/L	B311077	
Magnesium	969		500	ug/L	B311077	
Potassium	4390		500	ug/L	B311077	
Sodium	86300		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	121		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-06**

**Metals ICPMS**

Barium	1.26		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	28.5		1.00	ug/L	B311081	
Lead	2.44		1.00	ug/L	B311081	
Manganese	2.00		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	27.0		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-07**

**Metals ICP**

Calcium	2710		500	ug/L	B311077	
Iron	126		50.0	ug/L	B311077	
Magnesium	947		500	ug/L	B311077	
Potassium	4280		500	ug/L	B311077	
Sodium	84200		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	97.1		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	---	U	1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	23.9		1.00	ug/L	B311081	
Lead	1.83		1.00	ug/L	B311081	
Manganese	1.56		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-07**

**Metals ICPMS**

Zinc	23.8		2.00	ug/L	B311081
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**Field ID:** [REDACTED]

**Sample ID: 2311021-08**

**Metals ICP**

Calcium	2680		500	ug/L	B311077
Iron	121		50.0	ug/L	B311077
Magnesium	976		500	ug/L	B311077
Potassium	4380		500	ug/L	B311077
Sodium	87000		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	69.6		20.0	ug/L	B311081
Antimony	---	U	1.00	ug/L	B311081
Arsenic	---	U	1.00	ug/L	B311081
Barium	---	U	1.00	ug/L	B311081
Cadmium	---	U	1.00	ug/L	B311081
Chromium	---	U	2.00	ug/L	B311081
Copper	16.3		1.00	ug/L	B311081
Lead	1.71		1.00	ug/L	B311081
Manganese	1.29		1.00	ug/L	B311081
Nickel	---	U	1.00	ug/L	B311081
Vanadium	---	U	1.00	ug/L	B311081
Zinc	20.3		2.00	ug/L	B311081

**Field ID:** [REDACTED]

**Sample ID: 2311021-09**

**Metals ICP**

Calcium	2620		500	ug/L	B311077
Iron	120		50.0	ug/L	B311077
Magnesium	955		500	ug/L	B311077
Potassium	4340		500	ug/L	B311077



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-09**

**Metals ICP**

Sodium	85400		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	64.5		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	---	U	1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	14.5		1.00	ug/L	B311081	
Lead	1.34		1.00	ug/L	B311081	
Manganese	1.25		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	23.1		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-10**

**Metals ICP**

Calcium	2600		500	ug/L	B311077	
Iron	108		50.0	ug/L	B311077	
Magnesium	952		500	ug/L	B311077	
Potassium	4300		500	ug/L	B311077	
Sodium	84500		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	54.3		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	---	U	1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-10**

**Metals ICPMS**

Chromium	---	U	2.00	ug/L	B311081	
Copper	28.3		1.00	ug/L	B311081	
Lead	2.88		1.00	ug/L	B311081	
Manganese	1.35		1.00	ug/L	B311081	
Nickel	1.43		1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	61.4		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-11**

**Metals ICP**

Calcium	2930		500	ug/L	B311076	
Iron	180		50.0	ug/L	B311076	
Magnesium	1070		500	ug/L	B311076	
Potassium	4560		500	ug/L	B311076	
Sodium	91700		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.24		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	19.4		2.00	ug/L	B311080	
Copper	21.4		1.00	ug/L	B311080	
Lead	4.55		1.00	ug/L	B311080	
Manganese	7.02		1.00	ug/L	B311080	
Nickel	94.7		1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	307		4.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-12**

**Metals ICP**

Calcium	2850		500	ug/L	B311076	
Iron	80.6		50.0	ug/L	B311076	
Magnesium	1060		500	ug/L	B311076	
Potassium	4590		500	ug/L	B311076	
Sodium	91700		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	4.11		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	2.40		1.00	ug/L	B311080	
Nickel	1.82		1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	34.5		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-13**

**Metals ICP**

Calcium	2850		500	ug/L	B311076	
Iron	107		50.0	ug/L	B311076	
Magnesium	1060		500	ug/L	B311076	
Potassium	4580		500	ug/L	B311076	
Sodium	91700		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-13**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311080
Arsenic	---	U	1.00	ug/L	B311080
Barium	---	U	1.00	ug/L	B311080
Cadmium	---	U	1.00	ug/L	B311080
Chromium	---	U	2.00	ug/L	B311080
Copper	4.28		1.00	ug/L	B311080
Lead	---	U	1.00	ug/L	B311080
Manganese	3.04		1.00	ug/L	B311080
Nickel	---	U	1.00	ug/L	B311080
Vanadium	---	U	1.00	ug/L	B311080
Zinc	11.6		2.00	ug/L	B311080

**Field ID:** [REDACTED]

**Sample ID: 2311021-14**

**Metals ICP**

Calcium	2810		500	ug/L	B311076
Iron	141		50.0	ug/L	B311076
Magnesium	1070		500	ug/L	B311076
Potassium	4670		500	ug/L	B311076
Sodium	93900		1000	ug/L	B311076
Tin	---	U	10.0	ug/L	B311076

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080
Antimony	---	U	1.00	ug/L	B311080
Arsenic	---	U	1.00	ug/L	B311080
Barium	---	U	1.00	ug/L	B311080
Cadmium	---	U	1.00	ug/L	B311080
Chromium	---	U	2.00	ug/L	B311080
Copper	5.58		1.00	ug/L	B311080
Lead	---	U	1.00	ug/L	B311080
Manganese	2.38		1.00	ug/L	B311080



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311021-14**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	11.5		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-15**

**Metals ICP**

Calcium	2670		500	ug/L	B311076	
Iron	101		50.0	ug/L	B311076	
Magnesium	1030		500	ug/L	B311076	
Potassium	4620		500	ug/L	B311076	
Sodium	92300		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	3.98		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	1.86		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	8.83		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-16**

**Metals ICP**

Calcium	2650		500	ug/L	B311076	
Iron	85.4		50.0	ug/L	B311076	
Magnesium	1010		500	ug/L	B311076	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-16**

**Metals ICP**

Potassium	4600		500	ug/L	B311076	
Sodium	92000		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	3.51		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	1.86		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	7.78		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-17**

**Metals ICP**

Calcium	2640		500	ug/L	B311076	
Iron	74.2		50.0	ug/L	B311076	
Magnesium	1010		500	ug/L	B311076	
Potassium	4590		500	ug/L	B311076	
Sodium	91600		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-17**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	3.41		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	1.85		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	10.3		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-18**

**Metals ICP**

Calcium	2600		500	ug/L	B311076	
Iron	54.0		50.0	ug/L	B311076	
Magnesium	971		500	ug/L	B311076	
Potassium	4570		500	ug/L	B311076	
Sodium	91200		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	3.37		1.00	ug/L	B311080	
Lead	1.07		1.00	ug/L	B311080	
Manganese	1.85		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	33.8		2.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID:** 2311021-19

**Metals ICP**

Calcium	2650		500	ug/L	B311076	
Iron	72.4		50.0	ug/L	B311076	
Magnesium	998		500	ug/L	B311076	
Potassium	4570		500	ug/L	B311076	
Sodium	91600		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	3.95		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	2.46		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	14.7		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID:** 2311021-20

**Metals ICP**

Calcium	2630		500	ug/L	B311076	
Iron	99.0		50.0	ug/L	B311076	
Magnesium	1010		500	ug/L	B311076	
Potassium	4510		500	ug/L	B311076	
Sodium	90600		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-20**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311080
Arsenic	---	U	1.00	ug/L	B311080
Barium	---	U	1.00	ug/L	B311080
Cadmium	---	U	1.00	ug/L	B311080
Chromium	---	U	2.00	ug/L	B311080
Copper	4.27		1.00	ug/L	B311080
Lead	---	U	1.00	ug/L	B311080
Manganese	2.34		1.00	ug/L	B311080
Nickel	---	U	1.00	ug/L	B311080
Vanadium	---	U	1.00	ug/L	B311080
Zinc	8.32		2.00	ug/L	B311080

**Field ID:** [REDACTED]

**Sample ID: 2311021-21**

**Metals ICP**

Calcium	8770		500	ug/L	B311077
Iron	---	U	50.0	ug/L	B311077
Magnesium	515	J	500	ug/L	B311077
Potassium	4480		500	ug/L	B311077
Sodium	91100		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	87.5		20.0	ug/L	B311084
Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	6.09		1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	---	U	1.00	ug/L	B311084
Lead	---	U	1.00	ug/L	B311084
Manganese	---	U	1.00	ug/L	B311084





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-21**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	36.7		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-22**

**Metals ICP**

Calcium	8750		500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	518		500	ug/L	B311077	
Potassium	4450		500	ug/L	B311077	
Sodium	90600		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	87.1		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	5.95		1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	---	U	1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	---	U	1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	8.16		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-23**

**Metals ICP**

Calcium	8510		500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	502		500	ug/L	B311077	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-23**

**Metals ICP**

Potassium	4390		500	ug/L	B311077	
Sodium	88500		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	83.6		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	5.79		1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	1.08		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	---	U	1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	12.9		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-24**

**Metals ICP**

Calcium	8560		500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	---	U	500	ug/L	B311077	
Potassium	4380		500	ug/L	B311077	
Sodium	88200		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	93.1		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	6.45		1.00	ug/L	B311084	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-24**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	1.04		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	---	U	1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	11.4		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-25**

**Metals ICP**

Calcium	8840		500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	---	U	500	ug/L	B311077	
Potassium	4410		500	ug/L	B311077	
Sodium	89200		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	86.3		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	6.06		1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	---	U	1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	---	U	1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	9.34		2.00	ug/L	B311084	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-26**

**Metals ICP**

Calcium	8780		500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	---	U	500	ug/L	B311077	
Potassium	4380		500	ug/L	B311077	
Sodium	88400		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	91.6		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	6.45		1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	1.01		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	---	U	1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	11.6		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-27**

**Metals ICP**

Calcium	8860		500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	---	U	500	ug/L	B311077	
Potassium	4390		500	ug/L	B311077	
Sodium	89000		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	82.3		20.0	ug/L	B311084	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311021-27**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	6.10		1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	2.71		1.00	ug/L	B311084
Lead	1.60		1.00	ug/L	B311084
Manganese	---	U	1.00	ug/L	B311084
Nickel	---	U	1.00	ug/L	B311084
Vanadium	---	U	1.00	ug/L	B311084
Zinc	34.8		2.00	ug/L	B311084

**Field ID:** [REDACTED]

**Sample ID: 2311021-28**

**Metals ICP**

Calcium	8950		500	ug/L	B311077
Iron	---	U	50.0	ug/L	B311077
Magnesium	---	U	500	ug/L	B311077
Potassium	4360		500	ug/L	B311077
Sodium	88100		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	82.3		20.0	ug/L	B311084
Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	6.10		1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	1.72		1.00	ug/L	B311084
Lead	---	U	1.00	ug/L	B311084
Manganese	---	U	1.00	ug/L	B311084



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-28**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	35.3		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-29**

**Metals ICP**

Calcium	9130		500	ug/L	B311077	
Iron	51.0		50.0	ug/L	B311077	
Magnesium	---	U	500	ug/L	B311077	
Potassium	4400		500	ug/L	B311077	
Sodium	89000		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	84.5		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	6.16		1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	3.89		1.00	ug/L	B311084	
Lead	1.15		1.00	ug/L	B311084	
Manganese	---	U	1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	128		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-30**

**Metals ICP**

Calcium	8810		500	ug/L	B311077	
Iron	66.6		50.0	ug/L	B311077	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-30**

**Metals ICP**

Magnesium	---	U	500	ug/L	B311077	
Potassium	4420		500	ug/L	B311077	
Sodium	88600		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	86.9		20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	6.03		1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	2.50		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	1.05		1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	49.0		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-31**

**Metals ICP**

Calcium	---	U	500	ug/L	B311077	
Iron	---	U	50.0	ug/L	B311077	
Magnesium	---	U	500	ug/L	B311077	
Potassium	---	U	500	ug/L	B311077	
Sodium	---	U	1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-31**

**Metals ICPMS**

Barium	---	U	1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	---	U	1.00	ug/L	B311084
Lead	---	U	1.00	ug/L	B311084
Manganese	---	U	1.00	ug/L	B311084
Nickel	---	U	1.00	ug/L	B311084
Vanadium	---	U	1.00	ug/L	B311084
Zinc	---	U	2.00	ug/L	B311084

**Field ID:** [REDACTED]

**Sample ID: 2311021-32**

**Metals ICP**

Calcium	3100		500	ug/L	B311077
Iron	2710		50.0	ug/L	B311077
Magnesium	948		500	ug/L	B311077
Potassium	4400		500	ug/L	B311077
Sodium	86800		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	32.3		20.0	ug/L	B311084
Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	---	U	1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	147		1.00	ug/L	B311084
Lead	28.8		1.00	ug/L	B311084
Manganese	26.8		1.00	ug/L	B311084
Nickel	2.02		1.00	ug/L	B311084
Vanadium	---	U	1.00	ug/L	B311084





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-32**

**Metals ICPMS**

Zinc	856		10.0	ug/L	B311084	
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**Field ID:** [REDACTED]

**Sample ID: 2311021-33**

**Metals ICP**

Calcium	2920		500	ug/L	B311077	
Iron	425		50.0	ug/L	B311077	
Magnesium	917		500	ug/L	B311077	
Potassium	4370		500	ug/L	B311077	
Sodium	86800		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	---	U	1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	4.65		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	4.39		1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	47.6		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-34**

**Metals ICP**

Calcium	3270		500	ug/L	B311077	
Iron	755		50.0	ug/L	B311077	
Magnesium	1060		500	ug/L	B311077	
Potassium	4420		500	ug/L	B311077	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-34**

**Metals ICP**

Sodium	87600		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	---	U	1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	8.09		1.00	ug/L	B311084	
Lead	1.39		1.00	ug/L	B311084	
Manganese	5.74		1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	32.3		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-35**

**Metals ICP**

Calcium	3230		500	ug/L	B311077	
Iron	1170		50.0	ug/L	B311077	
Magnesium	1030		500	ug/L	B311077	
Potassium	4260		500	ug/L	B311077	
Sodium	84100		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	---	U	1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311021-35**

**Metals ICPMS**

Chromium	---	U	2.00	ug/L	B311084
Copper	31.8		1.00	ug/L	B311084
Lead	4.33		1.00	ug/L	B311084
Manganese	9.00		1.00	ug/L	B311084
Nickel	---	U	1.00	ug/L	B311084
Vanadium	---	U	1.00	ug/L	B311084
Zinc	46.9		2.00	ug/L	B311084

**Field ID:** [REDACTED]

**Sample ID: 2311021-36**

**Metals ICP**

Calcium	3370		500	ug/L	B311077
Iron	508		50.0	ug/L	B311077
Magnesium	1100		500	ug/L	B311077
Potassium	4440		500	ug/L	B311077
Sodium	88000		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084
Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	---	U	1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	3.36		1.00	ug/L	B311084
Lead	---	U	1.00	ug/L	B311084
Manganese	3.62		1.00	ug/L	B311084
Nickel	---	U	1.00	ug/L	B311084
Vanadium	---	U	1.00	ug/L	B311084
Zinc	21.3		2.00	ug/L	B311084



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-37**

**Metals ICP**

Calcium	3440		500	ug/L	B311077	
Iron	322		50.0	ug/L	B311077	
Magnesium	1130		500	ug/L	B311077	
Potassium	4490		500	ug/L	B311077	
Sodium	89500		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	---	U	1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	3.87		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	2.66		1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	29.2		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-38**

**Metals ICP**

Calcium	3340		500	ug/L	B311077	
Iron	537		50.0	ug/L	B311077	
Magnesium	1100		500	ug/L	B311077	
Potassium	4420		500	ug/L	B311077	
Sodium	87800		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-38**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	---	U	1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	3.19		1.00	ug/L	B311084
Lead	---	U	1.00	ug/L	B311084
Manganese	4.70		1.00	ug/L	B311084
Nickel	---	U	1.00	ug/L	B311084
Vanadium	---	U	1.00	ug/L	B311084
Zinc	18.5		2.00	ug/L	B311084

**Field ID:** [REDACTED]

**Sample ID: 2311021-39**

**Metals ICP**

Calcium	3320		500	ug/L	B311077
Iron	484		50.0	ug/L	B311077
Magnesium	1080		500	ug/L	B311077
Potassium	4400		500	ug/L	B311077
Sodium	87500		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084
Antimony	---	U	1.00	ug/L	B311084
Arsenic	---	U	1.00	ug/L	B311084
Barium	---	U	1.00	ug/L	B311084
Cadmium	---	U	1.00	ug/L	B311084
Chromium	---	U	2.00	ug/L	B311084
Copper	2.59		1.00	ug/L	B311084
Lead	---	U	1.00	ug/L	B311084
Manganese	4.52		1.00	ug/L	B311084



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311021-39**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	14.9		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-40**

**Metals ICP**

Calcium	3230		500	ug/L	B311077	
Iron	443		50.0	ug/L	B311077	
Magnesium	1050		500	ug/L	B311077	
Potassium	4320		500	ug/L	B311077	
Sodium	85300		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311084	
Antimony	---	U	1.00	ug/L	B311084	
Arsenic	---	U	1.00	ug/L	B311084	
Barium	---	U	1.00	ug/L	B311084	
Cadmium	---	U	1.00	ug/L	B311084	
Chromium	---	U	2.00	ug/L	B311084	
Copper	2.38		1.00	ug/L	B311084	
Lead	---	U	1.00	ug/L	B311084	
Manganese	4.30		1.00	ug/L	B311084	
Nickel	---	U	1.00	ug/L	B311084	
Vanadium	---	U	1.00	ug/L	B311084	
Zinc	13.9		2.00	ug/L	B311084	

**Field ID:** [REDACTED]

**Sample ID: 2311021-41**

**Metals ICP**

Calcium	2930		500	ug/L	B311076	
Iron	52.4		50.0	ug/L	B311076	
Magnesium	1030		500	ug/L	B311076	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-41**

**Metals ICP**

Potassium	4640		500	ug/L	B311076	
Sodium	92800		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	9.21		1.00	ug/L	B311080	
Lead	2.26		1.00	ug/L	B311080	
Manganese	1.32		1.00	ug/L	B311080	
Nickel	2.23		1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	652		10.0	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-42**

**Metals ICP**

Calcium	2920		500	ug/L	B311076	
Iron	63.6		50.0	ug/L	B311076	
Magnesium	1060		500	ug/L	B311076	
Potassium	4600		500	ug/L	B311076	
Sodium	92600		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-42**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	5.68		1.00	ug/L	B311080	
Lead	1.56		1.00	ug/L	B311080	
Manganese	1.62		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	46.2		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-43**

**Metals ICP**

Calcium	2780		500	ug/L	B311076	
Iron	61.3		50.0	ug/L	B311076	
Magnesium	1000		500	ug/L	B311076	
Potassium	4470		500	ug/L	B311076	
Sodium	88900		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	6.21		1.00	ug/L	B311080	
Lead	1.92		1.00	ug/L	B311080	
Manganese	1.60		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	87.6		2.00	ug/L	B311080	





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-44**

**Metals ICP**

Calcium	2850		500	ug/L	B311076	
Iron	63.8		50.0	ug/L	B311076	
Magnesium	1040		500	ug/L	B311076	
Potassium	4600		500	ug/L	B311076	
Sodium	92000		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	5.73		1.00	ug/L	B311080	
Lead	1.53		1.00	ug/L	B311080	
Manganese	1.78		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	23.1		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-45**

**Metals ICP**

Calcium	2740		500	ug/L	B311076	
Iron	61.2		50.0	ug/L	B311076	
Magnesium	999		500	ug/L	B311076	
Potassium	4500		500	ug/L	B311076	
Sodium	89200		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-45**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311080
Arsenic	---	U	1.00	ug/L	B311080
Barium	---	U	1.00	ug/L	B311080
Cadmium	---	U	1.00	ug/L	B311080
Chromium	---	U	2.00	ug/L	B311080
Copper	6.62		1.00	ug/L	B311080
Lead	1.57		1.00	ug/L	B311080
Manganese	1.70		1.00	ug/L	B311080
Nickel	---	U	1.00	ug/L	B311080
Vanadium	---	U	1.00	ug/L	B311080
Zinc	15.5		2.00	ug/L	B311080

**Field ID:** [REDACTED]

**Sample ID: 2311021-46**

**Metals ICP**

Calcium	2740		500	ug/L	B311076
Iron	62.0		50.0	ug/L	B311076
Magnesium	1000		500	ug/L	B311076
Potassium	4490		500	ug/L	B311076
Sodium	89300		1000	ug/L	B311076
Tin	---	U	10.0	ug/L	B311076

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080
Antimony	---	U	1.00	ug/L	B311080
Arsenic	---	U	1.00	ug/L	B311080
Barium	---	U	1.00	ug/L	B311080
Cadmium	---	U	1.00	ug/L	B311080
Chromium	---	U	2.00	ug/L	B311080
Copper	8.35		1.00	ug/L	B311080
Lead	1.88		1.00	ug/L	B311080
Manganese	1.70		1.00	ug/L	B311080



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-46**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	14.2		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-47**

**Metals ICP**

Calcium	2720		500	ug/L	B311076	
Iron	62.1		50.0	ug/L	B311076	
Magnesium	999		500	ug/L	B311076	
Potassium	4470		500	ug/L	B311076	
Sodium	89000		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	---	U	1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	7.75		1.00	ug/L	B311080	
Lead	1.66		1.00	ug/L	B311080	
Manganese	1.74		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	13.2		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-48**

**Metals ICP**

Calcium	2860		500	ug/L	B311076	
Iron	260		50.0	ug/L	B311076	
Magnesium	1100	J	500	ug/L	B311076	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-48**

**Metals ICP**

Potassium	4570		500	ug/L	B311076	
Sodium	92300		1000	ug/L	B311076	
Tin	---	U J	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.4		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.32		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	7.31		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	4.30		1.00	ug/L	B311080	
Nickel	3.28		1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	26.8		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-49**

**Metals ICP**

Calcium	2850		500	ug/L	B311076	
Iron	260		50.0	ug/L	B311076	
Magnesium	1110		500	ug/L	B311076	
Potassium	4610		500	ug/L	B311076	
Sodium	92800		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.4		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.31		1.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-49**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	5.12		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	4.32		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	6.58		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-51**

**Metals ICP**

Calcium	2780		500	ug/L	B311076	
Iron	243		50.0	ug/L	B311076	
Magnesium	1070		500	ug/L	B311076	
Potassium	4550		500	ug/L	B311076	
Sodium	91200		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.9		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.25		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	7.14		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	4.38		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	5.64		2.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-52**

**Metals ICP**

Calcium	2790		500	ug/L	B311076	
Iron	268		50.0	ug/L	B311076	
Magnesium	1070		500	ug/L	B311076	
Potassium	4560		500	ug/L	B311076	
Sodium	91300		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.0		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.28		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	8.11		1.00	ug/L	B311080	
Lead	1.90		1.00	ug/L	B311080	
Manganese	4.66		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	32.2		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-53**

**Metals ICP**

Calcium	2820		500	ug/L	B311076	
Iron	280		50.0	ug/L	B311076	
Magnesium	1090		500	ug/L	B311076	
Potassium	4580		500	ug/L	B311076	
Sodium	91900		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.5		20.0	ug/L	B311080	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-53**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.40		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	6.04		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	5.05		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	19.7		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-54**

**Metals ICP**

Calcium	2790		500	ug/L	B311076	
Iron	295		50.0	ug/L	B311076	
Magnesium	1080		500	ug/L	B311076	
Potassium	4510		500	ug/L	B311076	
Sodium	91200		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.9		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.28		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	5.45		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	5.23		1.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-54**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	10.8		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-55**

**Metals ICP**

Calcium	2820		500	ug/L	B311076	
Iron	316		50.0	ug/L	B311076	
Magnesium	1090		500	ug/L	B311076	
Potassium	4580		500	ug/L	B311076	
Sodium	91900		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.7		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.25		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	5.21		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	5.41		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	8.39		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-56**

**Metals ICP**

Calcium	2810		500	ug/L	B311076	
Iron	289		50.0	ug/L	B311076	





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-56**

**Metals ICP**

Magnesium	1080		500	ug/L	B311076	
Potassium	4570		500	ug/L	B311076	
Sodium	91700		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.8		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.28		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	8.04		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	5.04		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	7.94		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-57**

**Metals ICP**

Calcium	2790		500	ug/L	B311076	
Iron	268		50.0	ug/L	B311076	
Magnesium	1070		500	ug/L	B311076	
Potassium	4620		500	ug/L	B311076	
Sodium	92300		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	45.0		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311021-57**

**Metals ICPMS**

Barium	1.25		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	19.8		1.00	ug/L	B311080	
Lead	1.45		1.00	ug/L	B311080	
Manganese	4.52		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	9.42		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-58**

**Metals ICP**

Calcium	2800		500	ug/L	B311076	
Iron	290		50.0	ug/L	B311076	
Magnesium	1080		500	ug/L	B311076	
Potassium	4620		500	ug/L	B311076	
Sodium	92600		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.6		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.26		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	12.2		1.00	ug/L	B311080	
Lead	1.04		1.00	ug/L	B311080	
Manganese	4.82		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-58**

**Metals ICPMS**

Zinc	5.94		2.00	ug/L	B311080
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**Field ID:** [REDACTED]

**Sample ID: 2311021-59**

**Metals ICP**

Calcium	2790		500	ug/L	B311076
Iron	326		50.0	ug/L	B311076
Magnesium	1090		500	ug/L	B311076
Potassium	4560		500	ug/L	B311076
Sodium	91600		1000	ug/L	B311076
Tin	---	U	10.0	ug/L	B311076

**Metals ICPMS**

Aluminum	45.1		20.0	ug/L	B311080
Antimony	---	U	1.00	ug/L	B311080
Arsenic	---	U	1.00	ug/L	B311080
Barium	1.31		1.00	ug/L	B311080
Cadmium	---	U	1.00	ug/L	B311080
Chromium	---	U	2.00	ug/L	B311080
Copper	7.03		1.00	ug/L	B311080
Lead	---	U	1.00	ug/L	B311080
Manganese	5.42		1.00	ug/L	B311080
Nickel	---	U	1.00	ug/L	B311080
Vanadium	---	U	1.00	ug/L	B311080
Zinc	5.09		2.00	ug/L	B311080

**Field ID:** [REDACTED]

**Sample ID: 2311021-60**

**Metals ICP**

Calcium	2820		500	ug/L	B311076
Iron	343		50.0	ug/L	B311076
Magnesium	1100		500	ug/L	B311076
Potassium	4570		500	ug/L	B311076



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-60**

**Metals ICP**

Sodium	91900		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.3		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.33		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	
Chromium	---	U	2.00	ug/L	B311080	
Copper	6.83		1.00	ug/L	B311080	
Lead	---	U	1.00	ug/L	B311080	
Manganese	5.55		1.00	ug/L	B311080	
Nickel	---	U	1.00	ug/L	B311080	
Vanadium	---	U	1.00	ug/L	B311080	
Zinc	4.84		2.00	ug/L	B311080	

**Field ID:** [REDACTED]

**Sample ID: 2311021-61**

**Metals ICP**

Calcium	2840		500	ug/L	B311076	
Iron	293		50.0	ug/L	B311076	
Magnesium	1100		500	ug/L	B311076	
Potassium	4600		500	ug/L	B311076	
Sodium	92600		1000	ug/L	B311076	
Tin	---	U	10.0	ug/L	B311076	

**Metals ICPMS**

Aluminum	44.1		20.0	ug/L	B311080	
Antimony	---	U	1.00	ug/L	B311080	
Arsenic	---	U	1.00	ug/L	B311080	
Barium	1.37		1.00	ug/L	B311080	
Cadmium	---	U	1.00	ug/L	B311080	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-61**

**Metals ICPMS**

Chromium	---	U	2.00	ug/L	B311080
Copper	24.2		1.00	ug/L	B311080
Lead	1.77		1.00	ug/L	B311080
Manganese	4.83		1.00	ug/L	B311080
Nickel	---	U	1.00	ug/L	B311080
Vanadium	---	U	1.00	ug/L	B311080
Zinc	13.7		2.00	ug/L	B311080

**Field ID:** [REDACTED]

**Sample ID: 2311021-62**

**Metals ICP**

Calcium	3320		500	ug/L	B311077
Iron	96.7		50.0	ug/L	B311077
Magnesium	1020		500	ug/L	B311077
Potassium	4400		500	ug/L	B311077
Sodium	88200		1000	ug/L	B311077
Tin	---	U	10.0	ug/L	B311077

**Metals ICPMS**

Aluminum	30.5		20.0	ug/L	B311081
Antimony	---	U	1.00	ug/L	B311081
Arsenic	---	U	1.00	ug/L	B311081
Barium	4.32		1.00	ug/L	B311081
Cadmium	---	U	1.00	ug/L	B311081
Chromium	---	U	2.00	ug/L	B311081
Copper	77.1		1.00	ug/L	B311081
Lead	18.4		1.00	ug/L	B311081
Manganese	1.43		1.00	ug/L	B311081
Nickel	90.4		1.00	ug/L	B311081
Vanadium	---	U	1.00	ug/L	B311081
Zinc	227		4.00	ug/L	B311081



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-63**

**Metals ICP**

Calcium	3320		500	ug/L	B311077	
Iron	110		50.0	ug/L	B311077	
Magnesium	996		500	ug/L	B311077	
Potassium	4440		500	ug/L	B311077	
Sodium	88200		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	3.01		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	107		1.00	ug/L	B311081	
Lead	6.73		1.00	ug/L	B311081	
Manganese	1.21		1.00	ug/L	B311081	
Nickel	6.56		1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	27.0		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-64**

**Metals ICP**

Calcium	3230		500	ug/L	B311077	
Iron	155		50.0	ug/L	B311077	
Magnesium	987		500	ug/L	B311077	
Potassium	4360		500	ug/L	B311077	
Sodium	86900		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	54.7		20.0	ug/L	B311081	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-64**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	3.09		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	50.5		1.00	ug/L	B311081	
Lead	8.02		1.00	ug/L	B311081	
Manganese	2.29		1.00	ug/L	B311081	
Nickel	2.69		1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	32.0		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-65**

**Metals ICP**

Calcium	3230		500	ug/L	B311077	
Iron	235		50.0	ug/L	B311077	
Magnesium	984		500	ug/L	B311077	
Potassium	4390		500	ug/L	B311077	
Sodium	87500		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	69.3		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	3.04		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	36.9		1.00	ug/L	B311081	
Lead	5.03		1.00	ug/L	B311081	
Manganese	3.07		1.00	ug/L	B311081	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-65**

**Metals ICPMS**

Nickel	1.33		1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	20.7		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-66**

**Metals ICP**

Calcium	3250		500	ug/L	B311077	
Iron	181		50.0	ug/L	B311077	
Magnesium	991		500	ug/L	B311077	
Potassium	4430		500	ug/L	B311077	
Sodium	88300		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	71.7		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	2.94		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	29.8		1.00	ug/L	B311081	
Lead	5.02		1.00	ug/L	B311081	
Manganese	2.83		1.00	ug/L	B311081	
Nickel	1.02		1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	15.5		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-67**

**Metals ICP**

Calcium	3230		500	ug/L	B311077	
Iron	147		50.0	ug/L	B311077	





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-67**

**Metals ICP**

Magnesium	988		500	ug/L	B311077	
Potassium	4370		500	ug/L	B311077	
Sodium	87700		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	71.2		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	2.94		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	24.4		1.00	ug/L	B311081	
Lead	3.14		1.00	ug/L	B311081	
Manganese	2.68		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	12.6		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-68**

**Metals ICP**

Calcium	3240		500	ug/L	B311077	
Iron	154		50.0	ug/L	B311077	
Magnesium	989		500	ug/L	B311077	
Potassium	4410		500	ug/L	B311077	
Sodium	87900		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	70.8		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311021-68**

**Metals ICPMS**

Barium	2.92		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	23.4		1.00	ug/L	B311081	
Lead	2.88		1.00	ug/L	B311081	
Manganese	2.66		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	
Zinc	13.3		2.00	ug/L	B311081	

**Field ID:** [REDACTED]

**Sample ID: 2311021-69**

**Metals ICP**

Calcium	3270		500	ug/L	B311077	
Iron	148		50.0	ug/L	B311077	
Magnesium	990		500	ug/L	B311077	
Potassium	4410		500	ug/L	B311077	
Sodium	88100		1000	ug/L	B311077	
Tin	---	U	10.0	ug/L	B311077	

**Metals ICPMS**

Aluminum	71.8		20.0	ug/L	B311081	
Antimony	---	U	1.00	ug/L	B311081	
Arsenic	---	U	1.00	ug/L	B311081	
Barium	2.96		1.00	ug/L	B311081	
Cadmium	---	U	1.00	ug/L	B311081	
Chromium	---	U	2.00	ug/L	B311081	
Copper	23.8		1.00	ug/L	B311081	
Lead	9.64		1.00	ug/L	B311081	
Manganese	2.63		1.00	ug/L	B311081	
Nickel	---	U	1.00	ug/L	B311081	
Vanadium	---	U	1.00	ug/L	B311081	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311021-69**

**Metals ICPMS**

Zinc	23.0		2.00	ug/L	B311081	
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**Field ID:** [REDACTED]

**Sample ID: 2311039-01**

**Metals ICP**

Calcium	---	U	500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	---	U	500	ug/L	B311106	
Potassium	---	U	500	ug/L	B311106	
Sodium	---	U	1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	---	U	1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	---	U	1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	---	U	2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-02**

**Metals ICP**

Calcium	2250		500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	1030		500	ug/L	B311106	
Potassium	4550		500	ug/L	B311106	
Sodium	91300		1000	ug/L	B311106	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-02**

**Metals ICP**

Tin	---	U	10.0	ug/L	B311106
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**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	87.9		1.00	ug/L	B311107
Lead	3.40		1.00	ug/L	B311107
Manganese	---	U	1.00	ug/L	B311107
Nickel	4.02		1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	2250		20.0	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-03**

**Metals ICP**

Calcium	2350		500	ug/L	B311106
Iron	---	U	50.0	ug/L	B311106
Magnesium	1090		500	ug/L	B311106
Potassium	4570		500	ug/L	B311106
Sodium	91500		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-03**

**Metals ICPMS**

Copper	179		1.00	ug/L	B311107	
Lead	1.37		1.00	ug/L	B311107	
Manganese	---	U	1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	97.1		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-04**

**Metals ICP**

Calcium	2110		500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	978		500	ug/L	B311106	
Potassium	4550		500	ug/L	B311106	
Sodium	91200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	240		1.00	ug/L	B311107	
Lead	1.70		1.00	ug/L	B311107	
Manganese	---	U	1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	59.7		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-05**



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-05**

**Metals ICP**

Calcium	2100		500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	980		500	ug/L	B311106	
Potassium	4560		500	ug/L	B311106	
Sodium	91200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	420		2.00	ug/L	B311107	
Lead	1.32		1.00	ug/L	B311107	
Manganese	---	U	1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	57.4		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-06**

**Metals ICP**

Calcium	2190		500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	1030		500	ug/L	B311106	
Potassium	4510		500	ug/L	B311106	
Sodium	91200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-06**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	465		2.00	ug/L	B311107
Lead	---	U	1.00	ug/L	B311107
Manganese	---	U	1.00	ug/L	B311107
Nickel	---	U	1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	22.8		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-07**

**Metals ICP**

Calcium	2670		500	ug/L	B311106
Iron	---	U	50.0	ug/L	B311106
Magnesium	1240		500	ug/L	B311106
Potassium	4560		500	ug/L	B311106
Sodium	91200		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	793		5.00	ug/L	B311107
Lead	---	U	1.00	ug/L	B311107
Manganese	---	U	1.00	ug/L	B311107



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311039-07**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	25.7		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-08**

**Metals ICP**

Calcium	2560		500	ug/L	B311106
Iron	---	U	50.0	ug/L	B311106
Magnesium	1180		500	ug/L	B311106
Potassium	4560		500	ug/L	B311106
Sodium	91200		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	637		5.00	ug/L	B311107
Lead	---	U	1.00	ug/L	B311107
Manganese	---	U	1.00	ug/L	B311107
Nickel	---	U	1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	295		4.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-09**

**Metals ICP**

Calcium	2460		500	ug/L	B311106
Iron	---	U	50.0	ug/L	B311106
Magnesium	1130		500	ug/L	B311106





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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311039-09**

**Metals ICP**

Potassium	4530		500	ug/L	B311106	
Sodium	90700		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	993		5.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	---	U	1.00	ug/L	B311107	
Nickel	2.85		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	220		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-10**

**Metals ICP**

Calcium	2300		500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	1060		500	ug/L	B311106	
Potassium	4570		500	ug/L	B311106	
Sodium	91600		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-10**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	60.3		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	---	U	1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	35.0		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-11**

**Metals ICP**

Calcium	3890		500	ug/L	B311106	
Iron	---	U	50.0	ug/L	B311106	
Magnesium	1010		500	ug/L	B311106	
Potassium	4540		500	ug/L	B311106	
Sodium	90700		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	124		1.00	ug/L	B311107	
Lead	1.04		1.00	ug/L	B311107	
Manganese	1.59		1.00	ug/L	B311107	
Nickel	19.8		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	273		4.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-12**

**Metals ICP**

Calcium	3730		500	ug/L	B311106	
Iron	58.6		50.0	ug/L	B311106	
Magnesium	977		500	ug/L	B311106	
Potassium	4450		500	ug/L	B311106	
Sodium	88400		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	25.0		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	51.0		1.00	ug/L	B311107	
Lead	2.34		1.00	ug/L	B311107	
Manganese	2.57		1.00	ug/L	B311107	
Nickel	8.04		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	671		10.0	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-13**

**Metals ICP**

Calcium	3840		500	ug/L	B311106	
Iron	51.6		50.0	ug/L	B311106	
Magnesium	1000		500	ug/L	B311106	
Potassium	4500		500	ug/L	B311106	
Sodium	90100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	28.8		20.0	ug/L	B311107	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-13**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	98.5		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	1.25		1.00	ug/L	B311107	
Nickel	5.17		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	158		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-14**

**Metals ICP**

Calcium	3810		500	ug/L	B311106	
Iron	110		50.0	ug/L	B311106	
Magnesium	990		500	ug/L	B311106	
Potassium	4450		500	ug/L	B311106	
Sodium	89000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	32.2		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	315		2.00	ug/L	B311107	
Lead	2.96		1.00	ug/L	B311107	
Manganese	1.48		1.00	ug/L	B311107	



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-14**

**Metals ICPMS**

Nickel	1.71		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	318		4.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-15**

**Metals ICP**

Calcium	3860		500	ug/L	B311106	
Iron	117		50.0	ug/L	B311106	
Magnesium	1000		500	ug/L	B311106	
Potassium	4540		500	ug/L	B311106	
Sodium	90100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	22.8		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	4.49		2.00	ug/L	B311107	
Copper	185		1.00	ug/L	B311107	
Lead	4.35		1.00	ug/L	B311107	
Manganese	1.52		1.00	ug/L	B311107	
Nickel	5.86		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	675		10.0	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-16**

**Metals ICP**

Calcium	3940		500	ug/L	B311106	
Iron	105		50.0	ug/L	B311106	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-16**

**Metals ICP**

Magnesium	1030		500	ug/L	B311106	
Potassium	4630		500	ug/L	B311106	
Sodium	92000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	35.0		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	3.96		2.00	ug/L	B311107	
Copper	113		1.00	ug/L	B311107	
Lead	2.53		1.00	ug/L	B311107	
Manganese	1.46		1.00	ug/L	B311107	
Nickel	3.80		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	365		4.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-17**

**Metals ICP**

Calcium	3850		500	ug/L	B311106	
Iron	70.5		50.0	ug/L	B311106	
Magnesium	1000		500	ug/L	B311106	
Potassium	4520		500	ug/L	B311106	
Sodium	89500		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	34.8		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-17**

**Metals ICPMS**

Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	103		1.00	ug/L	B311107	
Lead	1.64		1.00	ug/L	B311107	
Manganese	1.08		1.00	ug/L	B311107	
Nickel	1.96		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	196		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-18**

**Metals ICP**

Calcium	3910		500	ug/L	B311106	
Iron	79.7		50.0	ug/L	B311106	
Magnesium	1020		500	ug/L	B311106	
Potassium	4530		500	ug/L	B311106	
Sodium	90100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	31.2		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	115		1.00	ug/L	B311107	
Lead	1.74		1.00	ug/L	B311107	
Manganese	1.06		1.00	ug/L	B311107	
Nickel	2.40		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-18**

**Metals ICPMS**

Zinc	310		4.00	ug/L	B311107	
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**Field ID:** [REDACTED]

**Sample ID: 2311039-19**

**Metals ICP**

Calcium	3900		500	ug/L	B311106	
Iron	125		50.0	ug/L	B311106	
Magnesium	1020		500	ug/L	B311106	
Potassium	4540		500	ug/L	B311106	
Sodium	90300		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	39.1		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	128		1.00	ug/L	B311107	
Lead	1.80		1.00	ug/L	B311107	
Manganese	1.50		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	125		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-20**

**Metals ICP**

Calcium	3870		500	ug/L	B311106	
Iron	141		50.0	ug/L	B311106	
Magnesium	1010		500	ug/L	B311106	
Potassium	4540		500	ug/L	B311106	





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-20**

**Metals ICP**

Sodium	90200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	39.9		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	86.8		1.00	ug/L	B311107	
Lead	1.53		1.00	ug/L	B311107	
Manganese	1.69		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	81.0		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-21**

**Metals ICP**

Calcium	3840		500	ug/L	B311106	
Iron	96.5		50.0	ug/L	B311106	
Magnesium	1010		500	ug/L	B311106	
Potassium	4470		500	ug/L	B311106	
Sodium	89500		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	38.5		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-21**

**Metals ICPMS**

Chromium	---	U	2.00	ug/L	B311107	
Copper	64.7		1.00	ug/L	B311107	
Lead	1.16		1.00	ug/L	B311107	
Manganese	1.48		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	64.1		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-22**

**Metals ICP**

Calcium	3840		500	ug/L	B311106	
Iron	81.4		50.0	ug/L	B311106	
Magnesium	1010		500	ug/L	B311106	
Potassium	4490		500	ug/L	B311106	
Sodium	89100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	34.8		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	69.2		1.00	ug/L	B311107	
Lead	1.11		1.00	ug/L	B311107	
Manganese	1.34		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	60.3		2.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-23**

**Metals ICP**

Calcium	3760		500	ug/L	B311111	
Iron	2620		50.0	ug/L	B311111	
Magnesium	945		500	ug/L	B311111	
Potassium	4240		500	ug/L	B311111	
Sodium	85200		1000	ug/L	B311111	
Tin	12.4		10.0	ug/L	B311111	

**Metals ICPMS**

Aluminum	98.8		20.0	ug/L	B311105	
Antimony	---	U	1.00	ug/L	B311105	
Arsenic	---	U	1.00	ug/L	B311105	
Barium	1.73		1.00	ug/L	B311105	
Cadmium	---	U	1.00	ug/L	B311105	
Chromium	---	U	2.00	ug/L	B311105	
Copper	432		2.00	ug/L	B311105	
Lead	12.6		1.00	ug/L	B311105	
Manganese	20.0		1.00	ug/L	B311105	
Nickel	4.39		1.00	ug/L	B311105	
Vanadium	---	U	1.00	ug/L	B311105	
Zinc	190		2.00	ug/L	B311105	

**Field ID:** [REDACTED]

**Sample ID: 2311039-24**

**Metals ICP**

Calcium	3650		500	ug/L	B311111	
Iron	5750		50.0	ug/L	B311111	
Magnesium	991		500	ug/L	B311111	
Potassium	4470		500	ug/L	B311111	
Sodium	90100		1000	ug/L	B311111	
Tin	21.3		10.0	ug/L	B311111	

**Metals ICPMS**

Aluminum	166		20.0	ug/L	B311105	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311039-24**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311105	
Arsenic	---	U	1.00	ug/L	B311105	
Barium	3.01		1.00	ug/L	B311105	
Cadmium	---	U	1.00	ug/L	B311105	
Chromium	---	U	2.00	ug/L	B311105	
Copper	950		5.00	ug/L	B311105	
Lead	23.2		1.00	ug/L	B311105	
Manganese	42.6		1.00	ug/L	B311105	
Nickel	8.32		1.00	ug/L	B311105	
Vanadium	---	U	1.00	ug/L	B311105	
Zinc	270		4.00	ug/L	B311105	

**Field ID:** [REDACTED]

**Sample ID: 2311039-25**

**Metals ICP**

Calcium	3010		500	ug/L	B311111	
Iron	1510		50.0	ug/L	B311111	
Magnesium	928		500	ug/L	B311111	
Potassium	4450		500	ug/L	B311111	
Sodium	89900		1000	ug/L	B311111	
Tin	---	U	10.0	ug/L	B311111	

**Metals ICPMS**

Aluminum	74.5		20.0	ug/L	B311105	
Antimony	---	U	1.00	ug/L	B311105	
Arsenic	---	U	1.00	ug/L	B311105	
Barium	1.17		1.00	ug/L	B311105	
Cadmium	---	U	1.00	ug/L	B311105	
Chromium	---	U	2.00	ug/L	B311105	
Copper	251		2.00	ug/L	B311105	
Lead	7.28		1.00	ug/L	B311105	
Manganese	11.4		1.00	ug/L	B311105	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-25**

**Metals ICPMS**

Nickel	2.69		1.00	ug/L	B311105	
Vanadium	---	U	1.00	ug/L	B311105	
Zinc	89.1		2.00	ug/L	B311105	

**Field ID:** [REDACTED]

**Sample ID: 2311039-26**

**Metals ICP**

Calcium	2980		500	ug/L	B311106	
Iron	466		50.0	ug/L	B311106	
Magnesium	957		500	ug/L	B311106	
Potassium	4520		500	ug/L	B311106	
Sodium	90300		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	47.6		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	107		1.00	ug/L	B311107	
Lead	2.49		1.00	ug/L	B311107	
Manganese	3.68		1.00	ug/L	B311107	
Nickel	1.14		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	47.3		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-27**

**Metals ICP**

Calcium	2120		500	ug/L	B311106	
Iron	301		50.0	ug/L	B311106	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-27**

**Metals ICP**

Magnesium	631		500	ug/L	B311106	
Potassium	4570		500	ug/L	B311106	
Sodium	92600		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	3.64		1.00	ug/L	B311107	
Lead	2.89		1.00	ug/L	B311107	
Manganese	3.33		1.00	ug/L	B311107	
Nickel	359		2.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	172		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-28**

**Metals ICP**

Calcium	1960		500	ug/L	B311106	
Iron	310		50.0	ug/L	B311106	
Magnesium	594		500	ug/L	B311106	
Potassium	4450		500	ug/L	B311106	
Sodium	90100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-28**

**Metals ICPMS**

Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	3.37		1.00	ug/L	B311107	
Lead	1.57		1.00	ug/L	B311107	
Manganese	3.01		1.00	ug/L	B311107	
Nickel	19.3		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	58.9		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-29**

**Metals ICP**

Calcium	1940		500	ug/L	B311106	
Iron	431		50.0	ug/L	B311106	
Magnesium	574		500	ug/L	B311106	
Potassium	4520		500	ug/L	B311106	
Sodium	91800		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	20.8		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	3.60		1.00	ug/L	B311107	
Lead	1.54		1.00	ug/L	B311107	
Manganese	3.44		1.00	ug/L	B311107	
Nickel	9.32		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-29**

**Metals ICPMS**

Zinc	18.1		2.00	ug/L	B311107
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**Field ID:** [REDACTED]

**Sample ID: 2311039-30**

**Metals ICP**

Calcium	1960		500	ug/L	B311106
Iron	339		50.0	ug/L	B311106
Magnesium	576		500	ug/L	B311106
Potassium	4450		500	ug/L	B311106
Sodium	90100		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	20.6		20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	2.88		1.00	ug/L	B311107
Lead	---	U	1.00	ug/L	B311107
Manganese	3.23		1.00	ug/L	B311107
Nickel	2.21		1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	5.76		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-31**

**Metals ICP**

Calcium	1990		500	ug/L	B311106
Iron	315		50.0	ug/L	B311106
Magnesium	582		500	ug/L	B311106
Potassium	4480		500	ug/L	B311106





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-31**

**Metals ICP**

Sodium	90600		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	21.8		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	2.62		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	3.44		1.00	ug/L	B311107	
Nickel	1.57		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	5.32		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-32**

**Metals ICP**

Calcium	2000		500	ug/L	B311106	
Iron	327		50.0	ug/L	B311106	
Magnesium	579		500	ug/L	B311106	
Potassium	4410		500	ug/L	B311106	
Sodium	89900		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	21.0		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-32**

**Metals ICPMS**

Chromium	---	U	2.00	ug/L	B311107	
Copper	2.77		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	3.36		1.00	ug/L	B311107	
Nickel	1.28		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	5.38		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-33**

**Metals ICP**

Calcium	2040		500	ug/L	B311106	
Iron	386		50.0	ug/L	B311106	
Magnesium	602		500	ug/L	B311106	
Potassium	4450		500	ug/L	B311106	
Sodium	90200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	20.4		20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	3.03		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	4.11		1.00	ug/L	B311107	
Nickel	1.10		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	5.99		2.00	ug/L	B311107	



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-34**

**Metals ICP**

Calcium	2070		500	ug/L	B311106	
Iron	321		50.0	ug/L	B311106	
Magnesium	614		500	ug/L	B311106	
Potassium	4470		500	ug/L	B311106	
Sodium	90000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	2.74		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	3.48		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	5.04		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-35**

**Metals ICP**

Calcium	2050		500	ug/L	B311106	
Iron	287		50.0	ug/L	B311106	
Magnesium	605		500	ug/L	B311106	
Potassium	4430		500	ug/L	B311106	
Sodium	89500		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
---------	--------	-----------	-----------------	-------	-------	----------------------------

**Field ID:** [REDACTED]

**Sample ID: 2311039-35**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	2.51		1.00	ug/L	B311107
Lead	---	U	1.00	ug/L	B311107
Manganese	3.18		1.00	ug/L	B311107
Nickel	1.06		1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	4.74		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-36**

**Metals ICP**

Calcium	2090		500	ug/L	B311106
Iron	314		50.0	ug/L	B311106
Magnesium	611		500	ug/L	B311106
Potassium	4470		500	ug/L	B311106
Sodium	90600		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	20.0		20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	2.48		1.00	ug/L	B311107
Lead	---	U	1.00	ug/L	B311107
Manganese	3.39		1.00	ug/L	B311107



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-36**

**Metals ICPMS**

Nickel	1.10		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	4.93		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-37**

**Metals ICP**

Calcium	2090		500	ug/L	B311106	
Iron	325		50.0	ug/L	B311106	
Magnesium	616		500	ug/L	B311106	
Potassium	4470		500	ug/L	B311106	
Sodium	90300		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	2.19		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	3.69		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	4.64		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-38**

**Metals ICP**

Calcium	2110		500	ug/L	B311106	
Iron	424		50.0	ug/L	B311106	
Magnesium	626		500	ug/L	B311106	



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

**Final Report**  
**Project: US VI Drinking Water - 2311021**  
**Project Number: 2311021**

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

**Sample ID: 2311039-38**

**Metals ICP**

Potassium	4490		500	ug/L	B311106	
Sodium	90900		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	2.60		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	4.45		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	5.34		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-39**

**Metals ICP**

Calcium	2110		500	ug/L	B311106	
Iron	398		50.0	ug/L	B311106	
Magnesium	629		500	ug/L	B311106	
Potassium	4470		500	ug/L	B311106	
Sodium	90500		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-39**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	2.67		1.00	ug/L	B311107	
Lead	---	U	1.00	ug/L	B311107	
Manganese	4.46		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	6.02		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-40**

**Metals ICP**

Calcium	2300		500	ug/L	B311106	
Iron	327		50.0	ug/L	B311106	
Magnesium	938		500	ug/L	B311106	
Potassium	4410		500	ug/L	B311106	
Sodium	89100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	5.77		2.00	ug/L	B311107	
Copper	26.9		1.00	ug/L	B311107	
Lead	3.35		1.00	ug/L	B311107	
Manganese	2.70		1.00	ug/L	B311107	
Nickel	59.7		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	195		2.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-41**

**Metals ICP**

Calcium	2260		500	ug/L	B311106	
Iron	283		50.0	ug/L	B311106	
Magnesium	925		500	ug/L	B311106	
Potassium	4430		500	ug/L	B311106	
Sodium	89000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	8.36		1.00	ug/L	B311107	
Lead	1.28		1.00	ug/L	B311107	
Manganese	2.66		1.00	ug/L	B311107	
Nickel	4.27		1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	104		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-42**

**Metals ICP**

Calcium	2340		500	ug/L	B311106	
Iron	381		50.0	ug/L	B311106	
Magnesium	957		500	ug/L	B311106	
Potassium	4540		500	ug/L	B311106	
Sodium	91000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-42**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	12.6		1.00	ug/L	B311107
Lead	1.76		1.00	ug/L	B311107
Manganese	3.42		1.00	ug/L	B311107
Nickel	1.57		1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	28.4		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-43**

**Metals ICP**

Calcium	2260		500	ug/L	B311106
Iron	478		50.0	ug/L	B311106
Magnesium	932		500	ug/L	B311106
Potassium	4430		500	ug/L	B311106
Sodium	88800		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	14.5		1.00	ug/L	B311107
Lead	2.11		1.00	ug/L	B311107
Manganese	4.14		1.00	ug/L	B311107



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-43**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	16.3		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-44**

**Metals ICP**

Calcium	2250		500	ug/L	B311106	
Iron	627		50.0	ug/L	B311106	
Magnesium	935		500	ug/L	B311106	
Potassium	4450		500	ug/L	B311106	
Sodium	89300		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	20.9		1.00	ug/L	B311107	
Lead	2.56		1.00	ug/L	B311107	
Manganese	4.85		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	21.1		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-45**

**Metals ICP**

Calcium	2250		500	ug/L	B311106	
Iron	577		50.0	ug/L	B311106	
Magnesium	936		500	ug/L	B311106	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-45**

**Metals ICP**

Potassium	4450		500	ug/L	B311106	
Sodium	89400		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	21.9		1.00	ug/L	B311107	
Lead	2.42		1.00	ug/L	B311107	
Manganese	4.36		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	20.1		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-46**

**Metals ICP**

Calcium	2320		500	ug/L	B311106	
Iron	533		50.0	ug/L	B311106	
Magnesium	970		500	ug/L	B311106	
Potassium	4490		500	ug/L	B311106	
Sodium	91300		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-46**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	19.0		1.00	ug/L	B311107	
Lead	2.26		1.00	ug/L	B311107	
Manganese	4.10		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	19.8		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-47**

**Metals ICP**

Calcium	2300		500	ug/L	B311106	
Iron	709		50.0	ug/L	B311106	
Magnesium	963		500	ug/L	B311106	
Potassium	4510		500	ug/L	B311106	
Sodium	91000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	21.9		1.00	ug/L	B311107	
Lead	2.47		1.00	ug/L	B311107	
Manganese	5.14		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	20.9		2.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-48**

**Metals ICP**

Calcium	2330		500	ug/L	B311106	
Iron	528		50.0	ug/L	B311106	
Magnesium	978		500	ug/L	B311106	
Potassium	4560		500	ug/L	B311106	
Sodium	92100		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	18.8		1.00	ug/L	B311107	
Lead	2.06		1.00	ug/L	B311107	
Manganese	4.04		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	18.4		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-49**

**Metals ICP**

Calcium	2330		500	ug/L	B311106	
Iron	657		50.0	ug/L	B311106	
Magnesium	977		500	ug/L	B311106	
Potassium	4550		500	ug/L	B311106	
Sodium	92200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-49**

**Metals ICPMS**

Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	19.7		1.00	ug/L	B311107
Lead	2.11		1.00	ug/L	B311107
Manganese	6.17		1.00	ug/L	B311107
Nickel	---	U	1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	19.3		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-50**

**Metals ICP**

Calcium	2340		500	ug/L	B311106
Iron	889		50.0	ug/L	B311106
Magnesium	977		500	ug/L	B311106
Potassium	4550		500	ug/L	B311106
Sodium	92200		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	22.8		1.00	ug/L	B311107
Lead	2.24		1.00	ug/L	B311107
Manganese	6.28		1.00	ug/L	B311107



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-50**

**Metals ICPMS**

Nickel	---	U	1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	21.3		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-51**

**Metals ICP**

Calcium	2330		500	ug/L	B311106
Iron	742		50.0	ug/L	B311106
Magnesium	978		500	ug/L	B311106
Potassium	4540		500	ug/L	B311106
Sodium	91900		1000	ug/L	B311106
Tin	---	U	10.0	ug/L	B311106

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107
Antimony	---	U	1.00	ug/L	B311107
Arsenic	---	U	1.00	ug/L	B311107
Barium	---	U	1.00	ug/L	B311107
Cadmium	---	U	1.00	ug/L	B311107
Chromium	---	U	2.00	ug/L	B311107
Copper	21.7		1.00	ug/L	B311107
Lead	2.16		1.00	ug/L	B311107
Manganese	5.35		1.00	ug/L	B311107
Nickel	---	U	1.00	ug/L	B311107
Vanadium	---	U	1.00	ug/L	B311107
Zinc	20.8		2.00	ug/L	B311107

**Field ID:** [REDACTED]

**Sample ID: 2311039-52**

**Metals ICP**

Calcium	2330		500	ug/L	B311106
Iron	923		50.0	ug/L	B311106
Magnesium	972		500	ug/L	B311106



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-52**

**Metals ICP**

Potassium	4510		500	ug/L	B311106	
Sodium	91700		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	23.1		1.00	ug/L	B311107	
Lead	2.47		1.00	ug/L	B311107	
Manganese	6.30		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	20.2		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-53**

**Metals ICP**

Calcium	2340		500	ug/L	B311106	
Iron	1090		50.0	ug/L	B311106	
Magnesium	978		500	ug/L	B311106	
Potassium	4560		500	ug/L	B311106	
Sodium	92200		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

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

**Sample ID: 2311039-53**

**Metals ICPMS**

Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	30.7		1.00	ug/L	B311107	
Lead	3.81		1.00	ug/L	B311107	
Manganese	8.08		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	25.2		2.00	ug/L	B311107	

**Field ID:** [REDACTED]

**Sample ID: 2311039-54**

**Metals ICP**

Calcium	2340		500	ug/L	B311106	
Iron	782		50.0	ug/L	B311106	
Magnesium	978		500	ug/L	B311106	
Potassium	4500		500	ug/L	B311106	
Sodium	92000		1000	ug/L	B311106	
Tin	---	U	10.0	ug/L	B311106	

**Metals ICPMS**

Aluminum	---	U	20.0	ug/L	B311107	
Antimony	---	U	1.00	ug/L	B311107	
Arsenic	---	U	1.00	ug/L	B311107	
Barium	---	U	1.00	ug/L	B311107	
Cadmium	---	U	1.00	ug/L	B311107	
Chromium	---	U	2.00	ug/L	B311107	
Copper	26.9		1.00	ug/L	B311107	
Lead	4.87		1.00	ug/L	B311107	
Manganese	5.71		1.00	ug/L	B311107	
Nickel	---	U	1.00	ug/L	B311107	
Vanadium	---	U	1.00	ug/L	B311107	
Zinc	17.8		2.00	ug/L	B311107	



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311076**

**Blank (B311076-BLK1)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						

**Blank (B311076-BLK2)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						

**LCS (B311076-BS1)**

Calcium	4860	500	ug/L	5000		97.2	85-115		
Iron	4960	50.0	ug/L	5000		99.2	85-115		
Magnesium	4940	500	ug/L	5000		98.9	85-115		
Potassium	4900	500	ug/L	5000		98.0	85-115		
Sodium	4730	1000	ug/L	5000		94.6	85-115		
Tin	196	10.0	ug/L	200.0		98.1	85-115		

**LCS (B311076-BS2)**

Calcium	4810	500	ug/L	5000		96.2	85-115		
Iron	4970	50.0	ug/L	5000		99.4	85-115		
Magnesium	4940	500	ug/L	5000		98.9	85-115		
Potassium	4940	500	ug/L	5000		98.7	85-115		
Sodium	4770	1000	ug/L	5000		95.3	85-115		
Tin	200	10.0	ug/L	200.0		100	85-115		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311076**

**LCS Dup (B311076-BSD1)**

Calcium	4880	500	ug/L	5000		97.6	85-115	0.382	20
Iron	4980	50.0	ug/L	5000		99.6	85-115	0.392	20
Magnesium	4960	500	ug/L	5000		99.1	85-115	0.234	20
Potassium	4920	500	ug/L	5000		98.4	85-115	0.399	20
Sodium	4750	1000	ug/L	5000		95.0	85-115	0.512	20
Tin	198	10.0	ug/L	200.0		98.9	85-115	0.853	20

**LCS Dup (B311076-BSD2)**

Calcium	4790	500	ug/L	5000		95.8	85-115	0.465	20
Iron	4940	50.0	ug/L	5000		98.9	85-115	0.571	20
Magnesium	4910	500	ug/L	5000		98.3	85-115	0.611	20
Potassium	4920	500	ug/L	5000		98.3	85-115	0.396	20
Sodium	4740	1000	ug/L	5000		94.7	85-115	0.649	20
Tin	197	10.0	ug/L	200.0		98.6	85-115	1.46	20

**Matrix Spike (B311076-MS1)**

**Source: 2311021-48**

Calcium	8070	500	ug/L	5000	2860	104	80-120		
Iron	5600	50.0	ug/L	5000	260	107	80-120		
Magnesium	6340	500	ug/L	5000	1100	105	80-120		
Potassium	9670	500	ug/L	5000	4570	102	80-120		
Sodium	95500	1000	ug/L	5000	92300	63.5	80-120		
Tin	223	10.0	ug/L	200.0	ND	112	80-120		

**Matrix Spike (B311076-MS2)**

**Source: 2311021-41**

Calcium	8140	500	ug/L	5000	2930	104	80-120		
Iron	5450	50.0	ug/L	5000	52.4	108	80-120		
Magnesium	6300	500	ug/L	5000	1030	105	80-120		
Potassium	9750	500	ug/L	5000	4640	102	80-120		
Sodium	95700	1000	ug/L	5000	92800	57.5	80-120		
Tin	225	10.0	ug/L	200.0	ND	112	80-120		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311076**

**Matrix Spike (B311076-MS3)**

**Source: 2311021-19**

Calcium	7770	500	ug/L	5000	2650	102	80-120		
Iron	5320	50.0	ug/L	5000	72.4	105	80-120		
Magnesium	6110	500	ug/L	5000	998	102	80-120		
Potassium	9610	500	ug/L	5000	4570	101	80-120		
Sodium	95100	1000	ug/L	5000	91600	71.1	80-120		
Tin	221	10.0	ug/L	200.0	ND	111	80-120		

**Matrix Spike Dup (B311076-MSD1)**

**Source: 2311021-48**

Calcium	7320	2500	ug/L	5000	2860	89.0	80-120	9.84	10
Iron	5080	250	ug/L	5000	260	96.4	80-120	9.66	10
Magnesium	5710	2500	ug/L	5000	1100	92.2	80-120	10.3	10
Potassium	9470	2500	ug/L	5000	4570	98.0	80-120	2.11	10
Sodium	89800	5000	ug/L	5000	92300	NR	80-120	6.19	10
Tin	201	50.0	ug/L	200.0	ND	101	80-120	10.2	10

**Matrix Spike Dup (B311076-MSD2)**

**Source: 2311021-41**

Calcium	7740	2500	ug/L	5000	2930	96.3	80-120	4.97	10
Iron	5190	250	ug/L	5000	52.4	103	80-120	4.85	10
Magnesium	6000	2500	ug/L	5000	1030	99.4	80-120	4.82	10
Potassium	9530	2500	ug/L	5000	4640	97.8	80-120	2.28	10
Sodium	93700	5000	ug/L	5000	92800	16.8	80-120	2.15	10
Tin	212	50.0	ug/L	200.0	ND	106	80-120	5.63	10

**Matrix Spike Dup (B311076-MSD3)**

**Source: 2311021-19**

Calcium	7040	2500	ug/L	5000	2650	87.8	80-120	9.80	10
Iron	4850	250	ug/L	5000	72.4	95.6	80-120	9.19	10
Magnesium	5550	2500	ug/L	5000	998	91.1	80-120	9.60	10
Potassium	9280	2500	ug/L	5000	4570	94.4	80-120	3.47	10
Sodium	89400	5000	ug/L	5000	91600	NR	80-120	6.22	10
Tin	210	50.0	ug/L	200.0	ND	105	80-120	5.04	10



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311077**

**Blank (B311077-BLK1)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						

**Blank (B311077-BLK2)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						

**LCS (B311077-BS1)**

Calcium	4820	500	ug/L	5000		96.4	85-115		
Iron	4840	50.0	ug/L	5000		96.9	85-115		
Magnesium	4880	500	ug/L	5000		97.5	85-115		
Potassium	4880	500	ug/L	5000		97.6	85-115		
Sodium	4660	1000	ug/L	5000		93.2	85-115		
Tin	190	10.0	ug/L	200.0		95.2	85-115		

**LCS (B311077-BS2)**

Calcium	4880	500	ug/L	5000		97.6	85-115		
Iron	4910	50.0	ug/L	5000		98.1	85-115		
Magnesium	4940	500	ug/L	5000		98.7	85-115		
Potassium	4970	500	ug/L	5000		99.4	85-115		
Sodium	4760	1000	ug/L	5000		95.2	85-115		
Tin	194	10.0	ug/L	200.0		96.8	85-115		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311077**

**LCS Dup (B311077-BSD1)**

Calcium	4870	500	ug/L	5000		97.4	85-115	1.04	20
Iron	4900	50.0	ug/L	5000		98.0	85-115	1.11	20
Magnesium	4930	500	ug/L	5000		98.6	85-115	1.04	20
Potassium	4950	500	ug/L	5000		98.9	85-115	1.34	20
Sodium	4730	1000	ug/L	5000		94.5	85-115	1.47	20
Tin	194	10.0	ug/L	200.0		97.0	85-115	1.87	20

**LCS Dup (B311077-BSD2)**

Calcium	4790	500	ug/L	5000		95.8	85-115	1.88	20
Iron	4820	50.0	ug/L	5000		96.3	85-115	1.84	20
Magnesium	4840	500	ug/L	5000		96.8	85-115	1.95	20
Potassium	4890	500	ug/L	5000		97.8	85-115	1.65	20
Sodium	4670	1000	ug/L	5000		93.5	85-115	1.79	20
Tin	189	10.0	ug/L	200.0		94.5	85-115	2.35	20

**Matrix Spike (B311077-MS1)**

**Source: 2311021-62**

Calcium	8220	500	ug/L	5000	3320	98.0	80-120		
Iron	5060	50.0	ug/L	5000	96.7	99.3	80-120		
Magnesium	5960	500	ug/L	5000	1020	98.7	80-120		
Potassium	9290	500	ug/L	5000	4400	97.7	80-120		
Sodium	91100	1000	ug/L	5000	88200	57.6	80-120		
Tin	210	10.0	ug/L	200.0	ND	105	80-120		

**Matrix Spike (B311077-MS2)**

**Source: 2311021-06**

Calcium	7730	500	ug/L	5000	2900	96.6	80-120		
Iron	5050	50.0	ug/L	5000	149	98.0	80-120		
Magnesium	5820	500	ug/L	5000	969	96.9	80-120		
Potassium	9190	500	ug/L	5000	4390	96.1	80-120		
Sodium	88900	1000	ug/L	5000	86300	51.9	80-120		
Tin	202	10.0	ug/L	200.0	ND	101	80-120		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311077**

**Matrix Spike (B311077-MS3)**

**Source: 2311021-21**

Calcium	13400	500	ug/L	5000	8770	92.5	80-120		
Iron	4940	50.0	ug/L	5000	34.7	98.1	80-120		
Magnesium	5370	500	ug/L	5000	515	97.0	80-120		
Potassium	9290	500	ug/L	5000	4480	96.2	80-120		
Sodium	92400	1000	ug/L	5000	91100	27.6	80-120		
Tin	201	10.0	ug/L	200.0	ND	101	80-120		

**Matrix Spike (B311077-MS4)**

**Source: 2311021-32**

Calcium	7900	500	ug/L	5000	3100	96.0	80-120		
Iron	7450	50.0	ug/L	5000	2710	94.9	80-120		
Magnesium	5790	500	ug/L	5000	948	96.9	80-120		
Potassium	9150	500	ug/L	5000	4400	95.0	80-120		
Sodium	88600	1000	ug/L	5000	86800	37.3	80-120		
Tin	202	10.0	ug/L	200.0	ND	101	80-120		

**Matrix Spike Dup (B311077-MSD1)**

**Source: 2311021-62**

Calcium	7660	2500	ug/L	5000	3320	86.8	80-120	7.05	10
Iron	4730	250	ug/L	5000	96.7	92.6	80-120	6.86	10
Magnesium	5430	2500	ug/L	5000	1020	88.1	80-120	9.25	10
Potassium	9010	2500	ug/L	5000	4400	92.1	80-120	3.06	10
Sodium	87400	5000	ug/L	5000	88200	NR	80-120	4.13	10
Tin	191	50.0	ug/L	200.0	ND	95.6	80-120	9.52	10

**Matrix Spike Dup (B311077-MSD2)**

**Source: 2311021-06**

Calcium	7270	2500	ug/L	5000	2900	87.3	80-120	6.19	10
Iron	4740	250	ug/L	5000	149	91.9	80-120	6.22	10
Magnesium	5340	2500	ug/L	5000	969	87.5	80-120	8.47	10
Potassium	9070	2500	ug/L	5000	4390	93.6	80-120	1.35	10
Sodium	86000	5000	ug/L	5000	86300	NR	80-120	3.42	10
Tin	193	50.0	ug/L	200.0	ND	96.4	80-120	4.92	10



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311077**

**Matrix Spike Dup (B311077-MSD3)**

**Source: 2311021-21**

Calcium	12200	2500	ug/L	5000	8770	68.1	80-120	9.55	10
Iron	4500	250	ug/L	5000	ND	89.9	80-120	9.37	10
Magnesium	4790	2500	ug/L	5000	515	85.6	80-120	11.3	10
Potassium	8910	2500	ug/L	5000	4480	88.8	80-120	4.10	10
Sodium	86900	5000	ug/L	5000	91100	NR	80-120	6.14	10
Tin	189	50.0	ug/L	200.0	ND	94.4	80-120	6.35	10

**Matrix Spike Dup (B311077-MSD4)**

**Source: 2311021-32**

Calcium	7510	2500	ug/L	5000	3100	88.2	80-120	5.09	10
Iron	7150	250	ug/L	5000	2710	88.7	80-120	4.22	10
Magnesium	5370	2500	ug/L	5000	948	88.5	80-120	7.51	10
Potassium	9000	2500	ug/L	5000	4400	91.9	80-120	1.70	10
Sodium	86900	5000	ug/L	5000	86800	2.94	80-120	1.96	10
Tin	194	50.0	ug/L	200.0	ND	97.1	80-120	4.05	10

**Batch B311106**

**Blank (B311106-BLK1)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						

**Blank (B311106-BLK2)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311106**

**Blank (B311106-BLK3)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						

**LCS (B311106-BS1)**

Calcium	4850	500	ug/L	5000		97.1	85-115		
Iron	4880	50.0	ug/L	5000		97.7	85-115		
Magnesium	4820	500	ug/L	5000		96.4	85-115		
Potassium	4820	500	ug/L	5000		96.4	85-115		
Sodium	4700	1000	ug/L	5000		94.0	85-115		
Tin	185	10.0	ug/L	200.0		92.7	85-115		

**LCS (B311106-BS2)**

Calcium	4940	500	ug/L	5000		98.7	85-115		
Iron	5010	50.0	ug/L	5000		100	85-115		
Magnesium	4920	500	ug/L	5000		98.4	85-115		
Potassium	4930	500	ug/L	5000		98.6	85-115		
Sodium	4880	1000	ug/L	5000		97.6	85-115		
Tin	199	10.0	ug/L	200.0		99.7	85-115		

**LCS (B311106-BS3)**

Calcium	4820	500	ug/L	5000		96.5	85-115		
Iron	4900	50.0	ug/L	5000		98.0	85-115		
Magnesium	4770	500	ug/L	5000		95.4	85-115		
Potassium	4840	500	ug/L	5000		96.8	85-115		
Sodium	4780	1000	ug/L	5000		95.5	85-115		
Tin	193	10.0	ug/L	200.0		96.3	85-115		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311106**

**LCS Dup (B311106-BSD1)**

Calcium	4890	500	ug/L	5000		97.8	85-115	0.745	20
Iron	4920	50.0	ug/L	5000		98.5	85-115	0.820	20
Magnesium	4870	500	ug/L	5000		97.4	85-115	1.00	20
Potassium	4870	500	ug/L	5000		97.3	85-115	0.969	20
Sodium	4730	1000	ug/L	5000		94.6	85-115	0.670	20
Tin	193	10.0	ug/L	200.0		96.6	85-115	4.15	20

**LCS Dup (B311106-BSD2)**

Calcium	4910	500	ug/L	5000		98.3	85-115	0.458	20
Iron	4980	50.0	ug/L	5000		99.6	85-115	0.486	20
Magnesium	4890	500	ug/L	5000		97.8	85-115	0.566	20
Potassium	4910	500	ug/L	5000		98.1	85-115	0.461	20
Sodium	4820	1000	ug/L	5000		96.5	85-115	1.17	20
Tin	199	10.0	ug/L	200.0		99.5	85-115	0.181	20

**LCS Dup (B311106-BSD3)**

Calcium	4790	500	ug/L	5000		95.8	85-115	0.682	20
Iron	4870	50.0	ug/L	5000		97.4	85-115	0.613	20
Magnesium	4740	500	ug/L	5000		94.9	85-115	0.558	20
Potassium	4800	500	ug/L	5000		96.0	85-115	0.821	20
Sodium	4730	1000	ug/L	5000		94.5	85-115	1.09	20
Tin	192	10.0	ug/L	200.0		96.2	85-115	0.156	20

**Matrix Spike (B311106-MS1)**

**Source: 2311039-02**

Calcium	7330	500	ug/L	5000	2250	102	80-120		
Iron	5170	50.0	ug/L	5000	26.1	103	80-120		
Magnesium	6030	500	ug/L	5000	1030	100	80-120		
Potassium	9550	500	ug/L	5000	4550	100	80-120		
Sodium	94000	1000	ug/L	5000	91300	53.9	80-120		
Tin	209	10.0	ug/L	200.0	ND	104	80-120		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311106**

**Matrix Spike (B311106-MS2)**

**Source: 2311039-12**

Calcium	8940	500	ug/L	5000	3730	104	80-120		
Iron	5260	50.0	ug/L	5000	58.6	104	80-120		
Magnesium	6020	500	ug/L	5000	977	101	80-120		
Potassium	9600	500	ug/L	5000	4450	103	80-120		
Sodium	94200	1000	ug/L	5000	88400	117	80-120		
Tin	213	10.0	ug/L	200.0	ND	107	80-120		

**Matrix Spike (B311106-MS3)**

**Source: 2311039-22**

Calcium	8990	500	ug/L	5000	3840	103	80-120		
Iron	5320	50.0	ug/L	5000	81.4	105	80-120		
Magnesium	6060	500	ug/L	5000	1010	101	80-120		
Potassium	9590	500	ug/L	5000	4490	102	80-120		
Sodium	93100	1000	ug/L	5000	89100	80.0	80-120		
Tin	216	10.0	ug/L	200.0	ND	108	80-120		

**Matrix Spike (B311106-MS4)**

**Source: 2311039-35**

Calcium	7160	500	ug/L	5000	2050	102	80-120		
Iron	5500	50.0	ug/L	5000	287	104	80-120		
Magnesium	5600	500	ug/L	5000	605	99.8	80-120		
Potassium	9480	500	ug/L	5000	4430	101	80-120		
Sodium	93000	1000	ug/L	5000	89500	68.8	80-120		
Tin	213	10.0	ug/L	200.0	ND	107	80-120		

**Matrix Spike (B311106-MS5)**

**Source: 2311039-45**

Calcium	7370	500	ug/L	5000	2250	102	80-120		
Iron	5760	50.0	ug/L	5000	577	104	80-120		
Magnesium	5960	500	ug/L	5000	936	100	80-120		
Potassium	9450	500	ug/L	5000	4450	100	80-120		
Sodium	93100	1000	ug/L	5000	89400	75.5	80-120		
Tin	210	10.0	ug/L	200.0	ND	105	80-120		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311106**

**Matrix Spike (B311106-MS6)**

**Source: 2311039-54**

Calcium	7610	500	ug/L	5000	2340	105	80-120		
Iron	6090	50.0	ug/L	5000	782	106	80-120		
Magnesium	6230	500	ug/L	5000	978	105	80-120		
Potassium	9660	500	ug/L	5000	4500	103	80-120		
Sodium	95600	1000	ug/L	5000	92000	72.3	80-120		
Tin	221	10.0	ug/L	200.0	ND	110	80-120		

**Matrix Spike Dup (B311106-MSD1)**

**Source: 2311039-02**

Calcium	6890	2500	ug/L	5000	2250	92.7	80-120	6.19	10
Iron	4860	250	ug/L	5000	ND	97.3	80-120	6.14	10
Magnesium	5580	2500	ug/L	5000	1030	91.1	80-120	7.70	10
Potassium	9360	2500	ug/L	5000	4550	96.2	80-120	2.05	10
Sodium	90700	5000	ug/L	5000	91300	NR	80-120	3.56	10
Tin	207	50.0	ug/L	200.0	ND	103	80-120	0.943	10

**Matrix Spike Dup (B311106-MSD2)**

**Source: 2311039-12**

Calcium	8290	2500	ug/L	5000	3730	91.2	80-120	7.55	10
Iron	4870	250	ug/L	5000	58.6	96.3	80-120	7.61	10
Magnesium	5530	2500	ug/L	5000	977	91.0	80-120	8.49	10
Potassium	9350	2500	ug/L	5000	4450	98.1	80-120	2.59	10
Sodium	90300	5000	ug/L	5000	88400	39.3	80-120	4.21	10
Tin	198	50.0	ug/L	200.0	ND	98.8	80-120	7.59	10

**Matrix Spike Dup (B311106-MSD3)**

**Source: 2311039-22**

Calcium	8630	2500	ug/L	5000	3840	95.8	80-120	4.08	10
Iron	5120	250	ug/L	5000	81.4	101	80-120	3.90	10
Magnesium	5760	2500	ug/L	5000	1010	95.2	80-120	4.96	10
Potassium	9470	2500	ug/L	5000	4490	99.7	80-120	1.20	10
Sodium	92600	5000	ug/L	5000	89100	70.2	80-120	0.527	10
Tin	208	50.0	ug/L	200.0	ND	104	80-120	3.98	10



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311106**

**Matrix Spike Dup (B311106-MSD4)**

**Source: 2311039-35**

Calcium	6790	2500	ug/L	5000	2050	94.7	80-120	5.34	10
Iron	5200	250	ug/L	5000	287	98.3	80-120	5.62	10
Magnesium	5290	2500	ug/L	5000	605	93.6	80-120	5.69	10
Potassium	9350	2500	ug/L	5000	4430	98.4	80-120	1.34	10
Sodium	91200	5000	ug/L	5000	89500	32.4	80-120	1.98	10
Tin	203	50.0	ug/L	200.0	ND	101	80-120	5.10	10

**Matrix Spike Dup (B311106-MSD5)**

**Source: 2311039-45**

Calcium	6980	2500	ug/L	5000	2250	94.5	80-120	5.54	10
Iron	5410	250	ug/L	5000	577	96.7	80-120	6.22	10
Magnesium	5580	2500	ug/L	5000	936	92.8	80-120	6.62	10
Potassium	8930	2500	ug/L	5000	4450	89.7	80-120	5.61	10
Sodium	90600	5000	ug/L	5000	89400	24.8	80-120	2.76	10
Tin	203	50.0	ug/L	200.0	ND	101	80-120	3.28	10

**Matrix Spike Dup (B311106-MSD6)**

**Source: 2311039-54**

Calcium	7340	2500	ug/L	5000	2340	100	80-120	3.54	10
Iron	5880	250	ug/L	5000	782	102	80-120	3.56	10
Magnesium	5880	2500	ug/L	5000	978	98.1	80-120	5.80	10
Potassium	9560	2500	ug/L	5000	4500	101	80-120	1.08	10
Sodium	95500	5000	ug/L	5000	92000	70.5	80-120	0.0943	10
Tin	209	50.0	ug/L	200.0	ND	105	80-120	5.36	10

**Batch B311111**

**Blank (B311111-BLK1)**

Calcium	--- U	500	ug/L						
Iron	--- U	50.0	ug/L						
Magnesium	--- U	500	ug/L						
Potassium	--- U	500	ug/L						
Sodium	--- U	1000	ug/L						
Tin	--- U	10.0	ug/L						



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311111**

**LCS (B311111-BS1)**

Calcium	4780	500	ug/L	5000		95.6	85-115		
Iron	4890	50.0	ug/L	5000		97.8	85-115		
Magnesium	4680	500	ug/L	5000		93.6	85-115		
Potassium	4870	500	ug/L	5000		97.4	85-115		
Sodium	4710	1000	ug/L	5000		94.2	85-115		
Tin	196	10.0	ug/L	200.0		97.9	85-115		

**LCS Dup (B311111-BSD1)**

Calcium	4770	500	ug/L	5000		95.4	85-115	0.231	20
Iron	4840	50.0	ug/L	5000		96.8	85-115	0.975	20
Magnesium	4640	500	ug/L	5000		92.7	85-115	0.941	20
Potassium	4830	500	ug/L	5000		96.6	85-115	0.841	20
Sodium	4660	1000	ug/L	5000		93.2	85-115	1.04	20
Tin	193	10.0	ug/L	200.0		96.3	85-115	1.64	20

**Matrix Spike (B311111-MS1)**

**Source: 2311039-25**

Calcium	7640	500	ug/L	5000	3010	92.6	80-120		
Iron	6280	50.0	ug/L	5000	1510	95.3	80-120		
Magnesium	5460	500	ug/L	5000	928	90.7	80-120		
Potassium	9040	500	ug/L	5000	4450	91.9	80-120		
Sodium	90500	1000	ug/L	5000	89900	11.0	80-120		
Tin	200	10.0	ug/L	200.0	5.61	97.1	80-120		

**Matrix Spike Dup (B311111-MSD1)**

**Source: 2311039-25**

Calcium	7680	2500	ug/L	5000	3010	93.4	80-120	0.484	10
Iron	6310	250	ug/L	5000	1510	95.9	80-120	0.441	10
Magnesium	5530	2500	ug/L	5000	928	92.1	80-120	1.25	10
Potassium	9240	2500	ug/L	5000	4450	95.8	80-120	2.13	10
Sodium	93300	5000	ug/L	5000	89900	68.8	80-120	3.15	10
Tin	207	50.0	ug/L	200.0	ND	103	80-120	3.30	10



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311080**

**Blank (B311080-BLK1)**

Aluminum	--- U	20.0	ug/L						
Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- 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						
Manganese	--- U	1.00	ug/L						
Nickel	--- U	1.00	ug/L						
Vanadium	--- U	1.00	ug/L						
Zinc	--- U	2.00	ug/L						

**Blank (B311080-BLK2)**

Aluminum	--- U	20.0	ug/L						
Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- 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						
Manganese	--- U	1.00	ug/L						
Nickel	--- U	1.00	ug/L						
Vanadium	--- U	1.00	ug/L						
Zinc	--- U	2.00	ug/L						

**LCS (B311080-BS1)**

Aluminum	470	20.0	ug/L	500.0	94.1	85-115
Antimony	47.8	1.00	ug/L	50.00	95.5	85-115
Arsenic	46.1	1.00	ug/L	50.00	92.1	85-115
Barium	46.3	1.00	ug/L	50.00	92.7	85-115
Cadmium	44.8	1.00	ug/L	50.00	89.7	85-115
Chromium	48.5	2.00	ug/L	50.00	96.9	85-115
Copper	47.9	1.00	ug/L	50.00	95.8	85-115
Lead	48.9	1.00	ug/L	50.00	97.7	85-115

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B311080</b>									
<b>LCS (B311080-BS1)</b>									
Manganese	48.7	1.00	ug/L	50.00		97.5	85-115		
Nickel	48.6	1.00	ug/L	50.00		97.3	85-115		
Vanadium	49.3	1.00	ug/L	50.00		98.5	85-115		
Zinc	45.1	2.00	ug/L	50.00		90.3	85-115		
<b>LCS (B311080-BS2)</b>									
Aluminum	476	20.0	ug/L	500.0		95.2	85-115		
Antimony	46.5	1.00	ug/L	50.00		93.0	85-115		
Arsenic	47.0	1.00	ug/L	50.00		93.9	85-115		
Barium	47.0	1.00	ug/L	50.00		94.1	85-115		
Cadmium	43.9	1.00	ug/L	50.00		87.8	85-115		
Chromium	48.3	2.00	ug/L	50.00		96.6	85-115		
Copper	49.5	1.00	ug/L	50.00		99.1	85-115		
Lead	48.4	1.00	ug/L	50.00		96.8	85-115		
Manganese	48.0	1.00	ug/L	50.00		96.0	85-115		
Nickel	50.4	1.00	ug/L	50.00		101	85-115		
Vanadium	49.4	1.00	ug/L	50.00		98.9	85-115		
Zinc	44.2	2.00	ug/L	50.00		88.4	85-115		
<b>LCS Dup (B311080-BSD1)</b>									
Aluminum	470	20.0	ug/L	500.0		93.9	85-115	0.148	20
Antimony	47.5	1.00	ug/L	50.00		95.0	85-115	0.535	20
Arsenic	45.6	1.00	ug/L	50.00		91.3	85-115	0.966	20
Barium	45.9	1.00	ug/L	50.00		91.8	85-115	0.872	20
Cadmium	44.8	1.00	ug/L	50.00		89.5	85-115	0.127	20
Chromium	48.5	2.00	ug/L	50.00		97.1	85-115	0.159	20
Copper	48.1	1.00	ug/L	50.00		96.3	85-115	0.531	20
Lead	48.7	1.00	ug/L	50.00		97.5	85-115	0.240	20
Manganese	48.5	1.00	ug/L	50.00		97.0	85-115	0.479	20
Nickel	48.7	1.00	ug/L	50.00		97.5	85-115	0.197	20
Vanadium	49.4	1.00	ug/L	50.00		98.7	85-115	0.193	20
Zinc	45.2	2.00	ug/L	50.00		90.3	85-115	0.0886	20





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311080**

**LCS Dup (B311080-BSD2)**

Aluminum	480	20.0	ug/L	500.0		96.1	85-115	0.850	20
Antimony	47.7	1.00	ug/L	50.00		95.4	85-115	2.53	20
Arsenic	47.4	1.00	ug/L	50.00		94.8	85-115	0.905	20
Barium	47.5	1.00	ug/L	50.00		94.9	85-115	0.887	20
Cadmium	44.2	1.00	ug/L	50.00		88.4	85-115	0.670	20
Chromium	48.8	2.00	ug/L	50.00		97.6	85-115	1.05	20
Copper	49.8	1.00	ug/L	50.00		99.6	85-115	0.560	20
Lead	49.0	1.00	ug/L	50.00		97.9	85-115	1.17	20
Manganese	48.3	1.00	ug/L	50.00		96.7	85-115	0.677	20
Nickel	50.6	1.00	ug/L	50.00		101	85-115	0.325	20
Vanadium	50.0	1.00	ug/L	50.00		99.9	85-115	1.03	20
Zinc	44.7	2.00	ug/L	50.00		89.4	85-115	1.12	20

**Matrix Spike (B311080-MS1)**

**Source: 2311021-48**

Aluminum	515	20.0	ug/L	500.0	44.4	94.1	80-120		
Antimony	49.0	1.00	ug/L	50.00	ND	98.0	80-120		
Arsenic	48.0	1.00	ug/L	50.00	0.140	95.6	80-120		
Barium	48.1	1.00	ug/L	50.00	1.32	93.6	80-120		
Cadmium	45.1	1.00	ug/L	50.00	ND	90.2	80-120		
Chromium	47.6	2.00	ug/L	50.00	ND	95.1	80-120		
Copper	54.0	1.00	ug/L	50.00	7.31	93.5	80-120		
Lead	50.0	1.00	ug/L	50.00	0.398	99.2	80-120		
Manganese	51.3	1.00	ug/L	50.00	4.30	93.9	80-120		
Nickel	49.8	1.00	ug/L	50.00	3.28	93.0	80-120		
Vanadium	50.1	1.00	ug/L	50.00	ND	100	80-120		
Zinc	75.9	2.00	ug/L	50.00	26.8	98.3	80-120		

**Matrix Spike (B311080-MS2)**

**Source: 2311021-41**

Aluminum	484	20.0	ug/L	500.0	8.38	95.2	80-120		
Antimony	48.5	1.00	ug/L	50.00	ND	97.0	80-120		
Arsenic	48.4	1.00	ug/L	50.00	0.322	96.1	80-120		
Barium	48.1	1.00	ug/L	50.00	0.365	95.4	80-120		
Cadmium	44.5	1.00	ug/L	50.00	0.105	88.8	80-120		
Chromium	47.9	2.00	ug/L	50.00	ND	95.8	80-120		
Copper	56.6	1.00	ug/L	50.00	9.21	94.7	80-120		
Lead	51.9	1.00	ug/L	50.00	2.26	99.2	80-120		

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311080**

**Matrix Spike (B311080-MS2)**

**Source: 2311021-41**

Manganese	48.1	1.00	ug/L	50.00	1.32	93.5	80-120		
Nickel	49.5	1.00	ug/L	50.00	2.23	94.5	80-120		
Vanadium	50.2	1.00	ug/L	50.00	ND	100	80-120		
Zinc	696	10.0	ug/L	50.00	652	88.4	80-120		

**Matrix Spike (B311080-MS3)**

**Source: 2311021-19**

Aluminum	489	20.0	ug/L	500.0	15.1	94.8	80-120		
Antimony	49.4	1.00	ug/L	50.00	ND	98.8	80-120		
Arsenic	48.5	1.00	ug/L	50.00	0.228	96.6	80-120		
Barium	47.4	1.00	ug/L	50.00	0.376	94.1	80-120		
Cadmium	44.3	1.00	ug/L	50.00	ND	88.7	80-120		
Chromium	47.4	2.00	ug/L	50.00	ND	94.8	80-120		
Copper	51.0	1.00	ug/L	50.00	3.95	94.1	80-120		
Lead	50.3	1.00	ug/L	50.00	0.551	99.5	80-120		
Manganese	49.1	1.00	ug/L	50.00	2.46	93.3	80-120		
Nickel	48.0	1.00	ug/L	50.00	0.391	95.2	80-120		
Vanadium	50.2	1.00	ug/L	50.00	ND	100	80-120		
Zinc	57.9	2.00	ug/L	50.00	14.7	86.5	80-120		

**Batch B311081**

**Blank (B311081-BLK1)**

Aluminum	--- U	20.0	ug/L						
Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- 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						
Manganese	--- U	1.00	ug/L						
Nickel	--- U	1.00	ug/L						
Vanadium	--- U	1.00	ug/L						
Zinc	--- U	2.00	ug/L						



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311081**

**LCS (B311081-BS1)**

Aluminum	474	20.0	ug/L	500.0		94.8	85-115		
Antimony	47.9	1.00	ug/L	50.00		95.7	85-115		
Arsenic	46.4	1.00	ug/L	50.00		92.9	85-115		
Barium	47.0	1.00	ug/L	50.00		94.1	85-115		
Cadmium	46.5	1.00	ug/L	50.00		93.0	85-115		
Chromium	48.8	2.00	ug/L	50.00		97.6	85-115		
Copper	48.6	1.00	ug/L	50.00		97.1	85-115		
Lead	49.1	1.00	ug/L	50.00		98.2	85-115		
Manganese	48.9	1.00	ug/L	50.00		97.7	85-115		
Nickel	49.4	1.00	ug/L	50.00		98.7	85-115		
Vanadium	49.4	1.00	ug/L	50.00		98.9	85-115		
Zinc	46.6	2.00	ug/L	50.00		93.3	85-115		

**LCS Dup (B311081-BSD1)**

Aluminum	467	20.0	ug/L	500.0		93.4	85-115	1.48	20
Antimony	46.9	1.00	ug/L	50.00		93.8	85-115	2.02	20
Arsenic	46.0	1.00	ug/L	50.00		92.0	85-115	0.985	20
Barium	46.0	1.00	ug/L	50.00		92.1	85-115	2.16	20
Cadmium	45.6	1.00	ug/L	50.00		91.2	85-115	1.90	20
Chromium	48.2	2.00	ug/L	50.00		96.3	85-115	1.35	20
Copper	47.8	1.00	ug/L	50.00		95.7	85-115	1.49	20
Lead	47.8	1.00	ug/L	50.00		95.7	85-115	2.60	20
Manganese	48.0	1.00	ug/L	50.00		96.0	85-115	1.82	20
Nickel	48.4	1.00	ug/L	50.00		96.9	85-115	1.88	20
Vanadium	48.4	1.00	ug/L	50.00		96.8	85-115	2.14	20
Zinc	45.8	2.00	ug/L	50.00		91.6	85-115	1.75	20

**Matrix Spike (B311081-MS1)**

**Source: 2311021-62**

Aluminum	493	20.0	ug/L	500.0	30.5	92.6	80-120		
Antimony	49.5	1.00	ug/L	50.00	ND	99.0	80-120		
Arsenic	48.4	1.00	ug/L	50.00	0.271	96.2	80-120		
Barium	51.2	1.00	ug/L	50.00	4.32	93.7	80-120		
Cadmium	46.3	1.00	ug/L	50.00	ND	92.6	80-120		
Chromium	48.1	2.00	ug/L	50.00	0.684	94.8	80-120		
Copper	121	1.00	ug/L	50.00	77.1	87.0	80-120		
Lead	68.2	1.00	ug/L	50.00	18.4	99.5	80-120		

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311081**

**Matrix Spike (B311081-MS1)**

**Source: 2311021-62**

Manganese	48.2	1.00	ug/L	50.00	1.43	93.5	80-120		
Nickel	133	1.00	ug/L	50.00	90.4	85.2	80-120		
Vanadium	49.5	1.00	ug/L	50.00	ND	98.9	80-120		
Zinc	269	4.00	ug/L	50.00	227	83.6	80-120		

**Matrix Spike (B311081-MS2)**

**Source: 2311021-06**

Aluminum	594	20.0	ug/L	500.0	121	94.8	80-120		
Antimony	49.5	1.00	ug/L	50.00	ND	99.0	80-120		
Arsenic	49.1	1.00	ug/L	50.00	0.714	96.7	80-120		
Barium	49.0	1.00	ug/L	50.00	1.26	95.5	80-120		
Cadmium	46.6	1.00	ug/L	50.00	ND	93.3	80-120		
Chromium	48.1	2.00	ug/L	50.00	0.297	95.6	80-120		
Copper	73.9	1.00	ug/L	50.00	28.5	90.8	80-120		
Lead	52.5	1.00	ug/L	50.00	2.44	100	80-120		
Manganese	49.2	1.00	ug/L	50.00	2.00	94.3	80-120		
Nickel	47.3	1.00	ug/L	50.00	0.565	93.5	80-120		
Vanadium	50.3	1.00	ug/L	50.00	0.579	99.4	80-120		
Zinc	75.9	2.00	ug/L	50.00	27.0	97.8	80-120		

**Batch B311084**

**Blank (B311084-BLK1)**

Aluminum	--- U	20.0	ug/L						
Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- 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						
Manganese	--- U	1.00	ug/L						
Nickel	--- U	1.00	ug/L						
Vanadium	--- U	1.00	ug/L						
Zinc	--- U	2.00	ug/L						



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311084**

**LCS (B311084-BS1)**

Aluminum	475	20.0	ug/L	500.0		95.1	85-115		
Antimony	48.0	1.00	ug/L	50.00		96.0	85-115		
Arsenic	46.8	1.00	ug/L	50.00		93.6	85-115		
Barium	47.2	1.00	ug/L	50.00		94.5	85-115		
Cadmium	45.9	1.00	ug/L	50.00		91.8	85-115		
Chromium	48.4	2.00	ug/L	50.00		96.7	85-115		
Copper	48.6	1.00	ug/L	50.00		97.3	85-115		
Lead	48.7	1.00	ug/L	50.00		97.3	85-115		
Manganese	48.5	1.00	ug/L	50.00		97.0	85-115		
Nickel	49.2	1.00	ug/L	50.00		98.5	85-115		
Vanadium	48.8	1.00	ug/L	50.00		97.7	85-115		
Zinc	46.0	2.00	ug/L	50.00		92.0	85-115		

**LCS Dup (B311084-BSD1)**

Aluminum	478	20.0	ug/L	500.0		95.6	85-115	0.559	20
Antimony	47.8	1.00	ug/L	50.00		95.6	85-115	0.461	20
Arsenic	47.1	1.00	ug/L	50.00		94.2	85-115	0.613	20
Barium	47.2	1.00	ug/L	50.00		94.3	85-115	0.129	20
Cadmium	45.9	1.00	ug/L	50.00		91.8	85-115	0.0414	20
Chromium	48.7	2.00	ug/L	50.00		97.3	85-115	0.653	20
Copper	49.1	1.00	ug/L	50.00		98.2	85-115	0.960	20
Lead	49.1	1.00	ug/L	50.00		98.2	85-115	0.861	20
Manganese	48.4	1.00	ug/L	50.00		96.8	85-115	0.142	20
Nickel	49.5	1.00	ug/L	50.00		99.0	85-115	0.555	20
Vanadium	49.2	1.00	ug/L	50.00		98.4	85-115	0.793	20
Zinc	46.3	2.00	ug/L	50.00		92.7	85-115	0.721	20

**Matrix Spike (B311084-MS1)**

**Source: 2311021-32**

Aluminum	503	20.0	ug/L	500.0	32.3	94.0	80-120		
Antimony	49.1	1.00	ug/L	50.00	ND	98.1	80-120		
Arsenic	47.8	1.00	ug/L	50.00	0.316	95.0	80-120		
Barium	47.8	1.00	ug/L	50.00	0.643	94.4	80-120		
Cadmium	45.8	1.00	ug/L	50.00	0.095	91.4	80-120		
Chromium	47.4	2.00	ug/L	50.00	0.203	94.4	80-120		
Copper	189	1.00	ug/L	50.00	147	84.2	80-120		
Lead	78.4	1.00	ug/L	50.00	28.8	99.1	80-120		

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311084**

**Matrix Spike (B311084-MS1)**

**Source: 2311021-32**

Manganese	73.1	1.00	ug/L	50.00	26.8	92.6	80-120		
Nickel	48.7	1.00	ug/L	50.00	2.02	93.4	80-120		
Vanadium	49.4	1.00	ug/L	50.00	ND	98.8	80-120		
Zinc	915	10.0	ug/L	50.00	856	118	80-120		

**Matrix Spike (B311084-MS2)**

**Source: 2311021-21**

Aluminum	553	20.0	ug/L	500.0	87.5	93.0	80-120		
Antimony	49.3	1.00	ug/L	50.00	ND	98.5	80-120		
Arsenic	48.1	1.00	ug/L	50.00	0.403	95.3	80-120		
Barium	52.7	1.00	ug/L	50.00	6.09	93.3	80-120		
Cadmium	46.0	1.00	ug/L	50.00	ND	92.0	80-120		
Chromium	47.7	2.00	ug/L	50.00	0.484	94.4	80-120		
Copper	46.7	1.00	ug/L	50.00	0.816	91.9	80-120		
Lead	49.3	1.00	ug/L	50.00	ND	98.6	80-120		
Manganese	46.9	1.00	ug/L	50.00	0.501	92.8	80-120		
Nickel	46.8	1.00	ug/L	50.00	0.847	91.9	80-120		
Vanadium	49.8	1.00	ug/L	50.00	0.527	98.6	80-120		
Zinc	84.4	2.00	ug/L	50.00	36.7	95.6	80-120		

**Batch B311105**

**Blank (B311105-BLK1)**

Aluminum	--- U	20.0	ug/L						
Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- 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						
Manganese	--- U	1.00	ug/L						
Nickel	--- U	1.00	ug/L						
Vanadium	--- U	1.00	ug/L						
Zinc	--- U	2.00	ug/L						



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311105**

**LCS (B311105-BS1)**

Aluminum	488	20.0	ug/L	500.0		97.7	85-115		
Antimony	52.0	1.00	ug/L	50.00		104	85-115		
Arsenic	48.0	1.00	ug/L	50.00		96.0	85-115		
Barium	48.5	1.00	ug/L	50.00		97.0	85-115		
Cadmium	49.4	1.00	ug/L	50.00		98.9	85-115		
Chromium	52.5	2.00	ug/L	50.00		105	85-115		
Copper	49.4	1.00	ug/L	50.00		98.8	85-115		
Lead	52.6	1.00	ug/L	50.00		105	85-115		
Manganese	52.4	1.00	ug/L	50.00		105	85-115		
Nickel	50.1	1.00	ug/L	50.00		100	85-115		
Vanadium	52.5	1.00	ug/L	50.00		105	85-115		
Zinc	49.4	2.00	ug/L	50.00		98.8	85-115		

**LCS Dup (B311105-BSD1)**

Aluminum	478	20.0	ug/L	500.0		95.7	85-115	2.03	20
Antimony	51.2	1.00	ug/L	50.00		102	85-115	1.62	20
Arsenic	47.5	1.00	ug/L	50.00		95.0	85-115	1.04	20
Barium	47.7	1.00	ug/L	50.00		95.4	85-115	1.66	20
Cadmium	49.0	1.00	ug/L	50.00		98.0	85-115	0.861	20
Chromium	51.5	2.00	ug/L	50.00		103	85-115	1.82	20
Copper	48.1	1.00	ug/L	50.00		96.2	85-115	2.57	20
Lead	51.6	1.00	ug/L	50.00		103	85-115	1.94	20
Manganese	51.1	1.00	ug/L	50.00		102	85-115	2.54	20
Nickel	49.1	1.00	ug/L	50.00		98.1	85-115	2.05	20
Vanadium	51.4	1.00	ug/L	50.00		103	85-115	2.15	20
Zinc	48.2	2.00	ug/L	50.00		96.3	85-115	2.49	20

**Matrix Spike (B311105-MS1)**

**Source: 2311039-25**

Aluminum	556	20.0	ug/L	500.0	74.5	96.3	80-120		
Antimony	52.8	1.00	ug/L	50.00	ND	106	80-120		
Arsenic	47.4	1.00	ug/L	50.00	ND	94.8	80-120		
Barium	48.5	1.00	ug/L	50.00	1.17	94.6	80-120		
Cadmium	49.0	1.00	ug/L	50.00	ND	98.0	80-120		
Chromium	51.3	2.00	ug/L	50.00	0.809	101	80-120		
Copper	295	2.00	ug/L	50.00	251	88.2	80-120		
Lead	59.0	1.00	ug/L	50.00	7.28	103	80-120		

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311105**

**Matrix Spike (B311105-MS1)**

**Source: 2311039-25**

Manganese	60.9	1.00	ug/L	50.00	11.4	99.0	80-120		
Nickel	50.4	1.00	ug/L	50.00	2.69	95.4	80-120		
Vanadium	52.7	1.00	ug/L	50.00	ND	105	80-120		
Zinc	136	2.00	ug/L	50.00	89.1	94.4	80-120		

**Batch B311107**

**Blank (B311107-BLK1)**

Aluminum	---	U	20.0	ug/L					
Antimony	---	U	1.00	ug/L					
Arsenic	---	U	1.00	ug/L					
Barium	---	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					
Manganese	---	U	1.00	ug/L					
Nickel	---	U	1.00	ug/L					
Vanadium	---	U	1.00	ug/L					
Zinc	---	U	2.00	ug/L					

**Blank (B311107-BLK2)**

Aluminum	---	U	20.0	ug/L					
Antimony	---	U	1.00	ug/L					
Arsenic	---	U	1.00	ug/L					
Barium	---	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					
Manganese	---	U	1.00	ug/L					
Nickel	---	U	1.00	ug/L					
Vanadium	---	U	1.00	ug/L					
Zinc	---	U	2.00	ug/L					





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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311107**

**Blank (B311107-BLK3)**

Aluminum	--- U	20.0	ug/L						
Antimony	--- U	1.00	ug/L						
Arsenic	--- U	1.00	ug/L						
Barium	--- 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						
Manganese	--- U	1.00	ug/L						
Nickel	--- U	1.00	ug/L						
Vanadium	--- U	1.00	ug/L						
Zinc	--- U	2.00	ug/L						

**LCS (B311107-BS1)**

Aluminum	472	20.0	ug/L	500.0		94.3	85-115		
Antimony	46.4	1.00	ug/L	50.00		92.8	85-115		
Arsenic	46.8	1.00	ug/L	50.00		93.5	85-115		
Barium	46.5	1.00	ug/L	50.00		93.1	85-115		
Cadmium	44.6	1.00	ug/L	50.00		89.2	85-115		
Chromium	47.2	2.00	ug/L	50.00		94.3	85-115		
Copper	47.1	1.00	ug/L	50.00		94.2	85-115		
Lead	48.2	1.00	ug/L	50.00		96.3	85-115		
Manganese	47.5	1.00	ug/L	50.00		95.0	85-115		
Nickel	48.1	1.00	ug/L	50.00		96.3	85-115		
Vanadium	48.1	1.00	ug/L	50.00		96.2	85-115		
Zinc	44.8	2.00	ug/L	50.00		89.6	85-115		

**LCS (B311107-BS2)**

Aluminum	472	20.0	ug/L	500.0		94.3	85-115		
Antimony	46.8	1.00	ug/L	50.00		93.5	85-115		
Arsenic	45.9	1.00	ug/L	50.00		91.8	85-115		
Barium	46.4	1.00	ug/L	50.00		92.8	85-115		
Cadmium	44.4	1.00	ug/L	50.00		88.8	85-115		
Chromium	47.5	2.00	ug/L	50.00		94.9	85-115		
Copper	47.9	1.00	ug/L	50.00		95.9	85-115		
Lead	48.2	1.00	ug/L	50.00		96.4	85-115		

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B311107</b>									
<b>LCS (B311107-BS2)</b>									
Manganese	47.6	1.00	ug/L	50.00		95.2	85-115		
Nickel	48.3	1.00	ug/L	50.00		96.5	85-115		
Vanadium	48.2	1.00	ug/L	50.00		96.4	85-115		
Zinc	45.1	2.00	ug/L	50.00		90.3	85-115		
<b>LCS (B311107-BS3)</b>									
Aluminum	478	20.0	ug/L	500.0		95.7	85-115		
Antimony	47.1	1.00	ug/L	50.00		94.2	85-115		
Arsenic	47.4	1.00	ug/L	50.00		94.7	85-115		
Barium	47.6	1.00	ug/L	50.00		95.2	85-115		
Cadmium	45.5	1.00	ug/L	50.00		91.0	85-115		
Chromium	48.3	2.00	ug/L	50.00		96.5	85-115		
Copper	48.4	1.00	ug/L	50.00		96.7	85-115		
Lead	48.6	1.00	ug/L	50.00		97.2	85-115		
Manganese	48.0	1.00	ug/L	50.00		96.0	85-115		
Nickel	49.0	1.00	ug/L	50.00		98.0	85-115		
Vanadium	48.5	1.00	ug/L	50.00		97.1	85-115		
Zinc	45.8	2.00	ug/L	50.00		91.7	85-115		
<b>LCS Dup (B311107-BSD1)</b>									
Aluminum	477	20.0	ug/L	500.0		95.3	85-115	1.03	20
Antimony	47.3	1.00	ug/L	50.00		94.7	85-115	1.94	20
Arsenic	46.9	1.00	ug/L	50.00		93.8	85-115	0.290	20
Barium	46.8	1.00	ug/L	50.00		93.7	85-115	0.604	20
Cadmium	45.0	1.00	ug/L	50.00		90.0	85-115	0.886	20
Chromium	47.6	2.00	ug/L	50.00		95.1	85-115	0.834	20
Copper	48.1	1.00	ug/L	50.00		96.2	85-115	2.03	20
Lead	48.6	1.00	ug/L	50.00		97.2	85-115	0.953	20
Manganese	48.0	1.00	ug/L	50.00		95.9	85-115	0.991	20
Nickel	48.4	1.00	ug/L	50.00		96.7	85-115	0.458	20
Vanadium	48.4	1.00	ug/L	50.00		96.8	85-115	0.601	20
Zinc	45.3	2.00	ug/L	50.00		90.6	85-115	1.10	20



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311107**

**LCS Dup (B311107-BSD2)**

Aluminum	473	20.0	ug/L	500.0		94.7	85-115	0.387	20
Antimony	47.2	1.00	ug/L	50.00		94.4	85-115	0.947	20
Arsenic	47.1	1.00	ug/L	50.00		94.3	85-115	2.62	20
Barium	47.1	1.00	ug/L	50.00		94.2	85-115	1.43	20
Cadmium	45.7	1.00	ug/L	50.00		91.4	85-115	2.87	20
Chromium	47.8	2.00	ug/L	50.00		95.5	85-115	0.636	20
Copper	48.0	1.00	ug/L	50.00		96.0	85-115	0.0855	20
Lead	47.9	1.00	ug/L	50.00		95.8	85-115	0.656	20
Manganese	47.7	1.00	ug/L	50.00		95.3	85-115	0.202	20
Nickel	48.2	1.00	ug/L	50.00		96.5	85-115	0.0622	20
Vanadium	47.9	1.00	ug/L	50.00		95.8	85-115	0.637	20
Zinc	45.8	2.00	ug/L	50.00		91.5	85-115	1.40	20

**LCS Dup (B311107-BSD3)**

Aluminum	473	20.0	ug/L	500.0		94.6	85-115	1.14	20
Antimony	47.2	1.00	ug/L	50.00		94.4	85-115	0.161	20
Arsenic	46.8	1.00	ug/L	50.00		93.7	85-115	1.13	20
Barium	47.1	1.00	ug/L	50.00		94.3	85-115	0.933	20
Cadmium	45.5	1.00	ug/L	50.00		91.0	85-115	0.0505	20
Chromium	47.8	2.00	ug/L	50.00		95.6	85-115	0.998	20
Copper	48.0	1.00	ug/L	50.00		96.0	85-115	0.801	20
Lead	48.4	1.00	ug/L	50.00		96.8	85-115	0.396	20
Manganese	47.9	1.00	ug/L	50.00		95.9	85-115	0.0917	20
Nickel	48.4	1.00	ug/L	50.00		96.7	85-115	1.34	20
Vanadium	48.2	1.00	ug/L	50.00		96.4	85-115	0.637	20
Zinc	45.6	2.00	ug/L	50.00		91.2	85-115	0.451	20

**Matrix Spike (B311107-MS1)**

**Source: 2311039-02**

Aluminum	479	20.0	ug/L	500.0	ND	95.9	80-120		
Antimony	48.6	1.00	ug/L	50.00	ND	97.2	80-120		
Arsenic	48.0	1.00	ug/L	50.00	0.448	95.1	80-120		
Barium	47.2	1.00	ug/L	50.00	0.546	93.4	80-120		
Cadmium	45.2	1.00	ug/L	50.00	ND	90.3	80-120		
Chromium	47.0	2.00	ug/L	50.00	ND	94.0	80-120		
Copper	132	1.00	ug/L	50.00	87.9	88.7	80-120		
Lead	53.0	1.00	ug/L	50.00	3.40	99.2	80-120		

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: 11/20/2023



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311107**

**Matrix Spike (B311107-MS1)**

**Source: 2311039-02**

Manganese	47.1	1.00	ug/L	50.00	0.546	93.1	80-120		
Nickel	50.1	1.00	ug/L	50.00	4.02	92.3	80-120		
Vanadium	49.2	1.00	ug/L	50.00	ND	98.4	80-120		
Zinc	2240	20.0	ug/L	50.00	2250	NR	80-120		

**Matrix Spike (B311107-MS2)**

**Source: 2311039-12**

Aluminum	496	20.0	ug/L	500.0	25.0	94.3	80-120		
Antimony	48.5	1.00	ug/L	50.00	ND	97.0	80-120		
Arsenic	48.1	1.00	ug/L	50.00	0.612	95.0	80-120		
Barium	46.9	1.00	ug/L	50.00	0.630	92.5	80-120		
Cadmium	45.1	1.00	ug/L	50.00	ND	90.1	80-120		
Chromium	47.3	2.00	ug/L	50.00	0.347	93.9	80-120		
Copper	95.0	1.00	ug/L	50.00	51.0	88.0	80-120		
Lead	51.8	1.00	ug/L	50.00	2.34	98.9	80-120		
Manganese	48.7	1.00	ug/L	50.00	2.57	92.4	80-120		
Nickel	54.0	1.00	ug/L	50.00	8.04	91.9	80-120		
Vanadium	49.0	1.00	ug/L	50.00	ND	97.9	80-120		
Zinc	717	10.0	ug/L	50.00	671	91.7	80-120		

**Matrix Spike (B311107-MS3)**

**Source: 2311039-22**

Aluminum	504	20.0	ug/L	500.0	34.8	93.8	80-120		
Antimony	49.4	1.00	ug/L	50.00	ND	98.7	80-120		
Arsenic	47.9	1.00	ug/L	50.00	0.485	94.7	80-120		
Barium	47.2	1.00	ug/L	50.00	0.487	93.5	80-120		
Cadmium	45.6	1.00	ug/L	50.00	ND	91.2	80-120		
Chromium	47.0	2.00	ug/L	50.00	0.345	93.4	80-120		
Copper	113	1.00	ug/L	50.00	69.2	87.6	80-120		
Lead	49.9	1.00	ug/L	50.00	1.11	97.7	80-120		
Manganese	47.5	1.00	ug/L	50.00	1.34	92.3	80-120		
Nickel	46.4	1.00	ug/L	50.00	0.466	92.0	80-120		
Vanadium	48.6	1.00	ug/L	50.00	ND	97.2	80-120		
Zinc	109	2.00	ug/L	50.00	60.3	97.2	80-120		



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

**Final Report**

**Project: US VI Drinking Water - 2311021**

**Project Number: 2311021**

**Metals ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B311107**

**Matrix Spike (B311107-MS4)**

**Source: 2311039-35**

Aluminum	486	20.0	ug/L	500.0	19.9	93.2	80-120		
Antimony	48.6	1.00	ug/L	50.00	ND	97.2	80-120		
Arsenic	48.3	1.00	ug/L	50.00	0.536	95.6	80-120		
Barium	47.4	1.00	ug/L	50.00	0.526	93.7	80-120		
Cadmium	45.9	1.00	ug/L	50.00	ND	91.8	80-120		
Chromium	46.6	2.00	ug/L	50.00	ND	93.3	80-120		
Copper	47.8	1.00	ug/L	50.00	2.51	90.5	80-120		
Lead	49.6	1.00	ug/L	50.00	0.536	98.1	80-120		
Manganese	49.3	1.00	ug/L	50.00	3.18	92.2	80-120		
Nickel	46.7	1.00	ug/L	50.00	1.06	91.2	80-120		
Vanadium	48.6	1.00	ug/L	50.00	ND	97.2	80-120		
Zinc	49.5	2.00	ug/L	50.00	4.74	89.6	80-120		

**Matrix Spike (B311107-MS5)**

**Source: 2311039-45**

Aluminum	486	20.0	ug/L	500.0	17.3	93.7	80-120		
Antimony	49.4	1.00	ug/L	50.00	ND	98.7	80-120		
Arsenic	47.8	1.00	ug/L	50.00	0.500	94.7	80-120		
Barium	47.1	1.00	ug/L	50.00	0.311	93.5	80-120		
Cadmium	45.3	1.00	ug/L	50.00	ND	90.6	80-120		
Chromium	47.0	2.00	ug/L	50.00	ND	94.1	80-120		
Copper	66.5	1.00	ug/L	50.00	21.9	89.3	80-120		
Lead	52.1	1.00	ug/L	50.00	2.42	99.3	80-120		
Manganese	50.5	1.00	ug/L	50.00	4.36	92.2	80-120		
Nickel	46.6	1.00	ug/L	50.00	0.783	91.7	80-120		
Vanadium	48.9	1.00	ug/L	50.00	ND	97.8	80-120		
Zinc	67.6	2.00	ug/L	50.00	20.1	95.0	80-120		

**Matrix Spike (B311107-MS6)**

**Source: 2311039-54**

Aluminum	491	20.0	ug/L	500.0	18.0	94.6	80-120		
Antimony	49.6	1.00	ug/L	50.00	ND	99.3	80-120		
Arsenic	48.1	1.00	ug/L	50.00	0.650	94.9	80-120		
Barium	47.5	1.00	ug/L	50.00	0.365	94.3	80-120		
Cadmium	45.6	1.00	ug/L	50.00	ND	91.2	80-120		
Chromium	47.2	2.00	ug/L	50.00	ND	94.3	80-120		
Copper	71.8	1.00	ug/L	50.00	26.9	89.8	80-120		
Lead	54.8	1.00	ug/L	50.00	4.87	99.9	80-120		

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: 11/20/2023



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Final Report

Project: US VI Drinking Water - 2311021

Project Number: 2311021

Metals ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B311107

Matrix Spike (B311107-MS6)

Source: 2311039-54

Manganese	52.5	1.00	ug/L	50.00	5.71	93.5	80-120		
Nickel	46.8	1.00	ug/L	50.00	0.718	92.2	80-120		
Vanadium	49.2	1.00	ug/L	50.00	ND	98.4	80-120		
Zinc	64.8	2.00	ug/L	50.00	17.8	94.0	80-120		