

May 29, 2024

Mark Bransom, Chief Executive Officer  
Klamath River Renewal Corporation  
2001 Addison Street, Suite 317  
Berkeley, CA 94704

**RE: Klamath River Metal Samples Collected May 1-2, 2024**

Dear Mr. Bransom,

On May 1-2, 2024, Camas, LLC (Camas) staff collected water samples at 10 locations along the mainstem Klamath River from just upstream of the former J.C. Boyle Reservoir footprint in Oregon to Happy Camp, California. Camas delivered the ice-chilled samples to the Neilson Research Corporation (Neilson) laboratory in Medford, Oregon on the same day the samples were collected (May 1, 2024 for 8 locations in California, and May 2, 2024 for 2 locations in Oregon). The Neilson laboratory then processed and analyzed the samples for the parameters listed in the table below.

Analyte(s)	Method
Hg (total)	E245.1
Al, Fe (total and dissolved)	E200.7
As, Cd, Cr, Cu, Pb, Ni, Ag, Zn (total and dissolved)	E200.8
Cr (VI) (total)	E218.6
TOC (total)	A5310C
Hardness (total)	A2340B

I received the laboratory results from Neilson on May 13 and 14, 2024 and reviewed the data/quality control reports. On May 15, 2024 I provided all laboratory reports to an independent water quality analyst, Dr. Jacob Kann of Aquatic Ecosystem Sciences LLC. Dr. Kann has extensive Klamath River water quality experience and is highly respected in the field.

Dr. Kann analyzed the laboratory results and has provided a technical memorandum summarizing the findings by comparing results with regulatory standards, previous sampling efforts, and spatial trends. The primary conclusions were that metals concentrations in the mainstem Klamath River 1) are safe for recreation, agricultural use, and as a raw water source for public drinking water systems (after filtration and treatment); 2) are substantially lower than concentrations found by Siskiyou County in their January 31, 2024 sampling effort; and 3) tended to increase in concentration from upstream to downstream even in reaches without a reservoir footprint.

Dr. Kann's technical memorandum is attached here along with the full laboratory reports from Neilson. If you have any questions, please contact me by email at [matt@camasllc.com](mailto:matt@camasllc.com) or by phone at (541) 231-9392.

Signed:



Matt Robart, Scientist IV, Camas, LLC

**Attachment**  
**Technical Memorandum**

**Review of KRRC Klamath River Metal Samples Collected May 1-2,  
2024**



**JACOB KANN, Ph.D.**  
**AQUATIC ECOLOGIST**  
295 East Main St., Suite 7  
Ashland, OR 97520  
Voice: 541-482-1575  
Fax: 541-552-1024  
Email: [jacob@aquatic-ecosciences.com](mailto:jacob@aquatic-ecosciences.com)

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## Technical Memorandum

# Review of KRRC Klamath River Metal Samples Collected May 1-2, 2024

*Prepared for:* **Klamath River Renewal Corporation**

*Prepared by:* **Jacob Kann Ph.D., Aquatic Ecosystem Sciences LLC**

Date: 28 May 2024

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On May 1<sup>st</sup> and 2<sup>nd</sup> 2024, Camas Environmental Professionals (Camas) collected water samples for analysis of total and dissolved metals in the mainstem Klamath River. Results of this monitoring effort indicate that metals in Klamath River water at the time of the May sampling event at the sampled locations were at safe concentrations for recreational and agricultural uses, and for use as a raw water source for public drinking water systems that include filtration and treatment.

The purpose of this memo is to review and evaluate a set of metals data collected longitudinally along the Klamath River on May 1<sup>st</sup> and 2<sup>nd</sup> of 2024, and to provide context relative to beneficial uses for drinking water, crop irrigation, and livestock drinking water. These data were collected by Camas on behalf of the Klamath River Renewal Corporation (KRRC). As predicted, subsequent to the drawdown and the release of sediment laden water behind the Iron Gate, Copco No. 1, and J.C. Boyle dams as part of the Klamath River dam removal project, Klamath River turbidity levels sharply increased in January of 2024. Metals data (total recoverable concentrations) collected by Siskiyou County on January 31<sup>st</sup>, 2024 (CKM Environmental 2024) showed elevated levels of aluminum, arsenic, iron, and lead that exceeded thresholds for human drinking water<sup>1</sup>. In addition, concentrations of aluminum exceeded thresholds for crop irrigation and livestock drinking water, and iron exceeded the crop irrigation threshold<sup>2</sup>.

These elements were previously determined to be associated with the settled sediment behind the dams, and concentrations were expected to spike with initial flushing, and then decline over time as sediment was transported downstream to the Pacific Ocean. The purpose of the sampling effort on May 1-2, 2024 was to determine the longitudinal pattern of both total and

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<sup>1</sup> California Public Health Goal for Drinking Water

[https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/documents/ccr/mcls\\_epa\\_vs\\_dwp.pdf](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/ccr/mcls_epa_vs_dwp.pdf)

[https://www.waterboards.ca.gov/water\\_issues/programs/water\\_quality\\_goals/docs/wq\\_assessment\\_thresholds.xlsx](https://www.waterboards.ca.gov/water_issues/programs/water_quality_goals/docs/wq_assessment_thresholds.xlsx)

Secondary Drinking Water Standards - Non-mandatory water quality standards established as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor:

[https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/documents/ddw\\_secondary\\_standards.pdf](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/ddw_secondary_standards.pdf)

<sup>2</sup> United Nations Food and Agriculture Organization (UN FAO) Recommended Maximum Concentrations Of Trace Elements In Irrigation Water <https://www.fao.org/4/T0234E/T0234E06.htm#tab21>

UN FAO Guidelines For Levels Of Toxic Substances In Livestock Drinking Water

<https://www.fao.org/4/T0234E/T0234E07.htm#tab30>

dissolved metals concentrations beginning just above the J.C. Boyle reservoir reach and extending downstream to Happy Camp.

With the exception of the dissolved fraction, where samples were not field filtered<sup>3</sup>, my review of the sampling protocol (KRRRC Enhanced Metals Sampling SOP; CAMAS 2024)<sup>4</sup> and laboratory methods (Appendix 1: Nielsen Research Corporation Laboratory Reports) showed that all standard QA/QC protocols were followed for the established stations (Table 1).

Table 1. Klamath River May1-2, 2024 metals sampling stations ordered longitudinally from upstream to downstream.

Site ID	Site Name	River Mile	Latitude	Longitude	Description
01 JCB up	J.C. Boyle Upstream	234.1	42.15053	-122.01642	Just upstream of the former J.C. Boyle Reservoir
02 JCB down	J.C. Boyle Downstream	225.7	42.08927	-122.07236	Boat ramp at Spring Island River Access, downstream of the J.C. Boyle Powerhouse
03 PA1	Public Access No. 1	209	41.96514	-122.25227	River access near upstream extent of former Copco No. 1 Reservoir
04 IG	Iron Gate	192.8	41.93107	-122.44198	100 feet upstream of the Iron Gate boat ramp
05 KWA	Klamathon Wildlife Area	185.4	41.89122	-122.53789	0.83 miles downstream of Klamathon Bridge
06 SH	Snag Hole	178.5	41.82876	-122.60496	0.75 miles downstream of the Shasta River confluence
07 BC	Beaver Creek	162.5	41.86438	-122.81914	0.75 miles downstream of the Beaver Creek confluence
08 HCR	Horse Creek	149.4	41.82879	-123.00543	670 feet downstream of Horse Creek Bridge
09 SV	Seiad Valley	131.4	41.84303	-123.21198	0.72 miles downstream of Wildwood Tavern/RV
10 HCA	Happy Camp	110	41.80787	-123.36428	River access at Happy Camp Septic/Chemical Toilet

<sup>3</sup> Laboratory filtration occurred within 24 hours; 9:20 am for the 5/1 samples; 2:38 pm for the 5/2 samples. Given ambient pH, the 24 hr. filtered samples are likely representative of dissolved conditions at the time of sampling.

<sup>4</sup> SWAMP SOP: Collections of Water and Bed Sediment Samples with Associated Field Measurements and Physical Habitat in California

[https://www.waterboards.ca.gov/water\\_issues/programs/swamp/docs/final\\_collect\\_wat'er\\_sed\\_phys\\_habitat.pdf](https://www.waterboards.ca.gov/water_issues/programs/swamp/docs/final_collect_wat'er_sed_phys_habitat.pdf)

For total forms during the May sampling, only aluminum, iron, and arsenic were consistently detected above laboratory reporting limits at all stations, with chromium detected at low levels at KWA and SV, and copper at KWA and HCR (Figure 1). All other metals were either not detected or were below laboratory reporting limits (for graphing purposes shown as zeros on Figure 1). As expected with continued sediment transport from the disturbed river channels in the former reservoir footprints, concentrations of aluminum and iron increased from above J.C. Boyle (JCB up) to below J.C. Boyle (JCB down), and again from above Copco (PA1) to below Iron Gate (IG). For reasons that are unclear (results are only from one point in time limiting interpretation), concentrations of total aluminum and iron also increased from below Boyle to above Copco, and from below Iron Gate to below the Klamathon Bridge (KWA), reaches that are not within the former reservoir footprints. Although arsenic was detected at all stations, concentrations did not increase longitudinally through the former reservoir reaches, indicating that on May 1-2 total arsenic values represented those entering from the basin upstream of the J.C. Boyle reach (Figure 1.).

In addition, total metal concentrations declined sharply from the Siskiyou County January 31<sup>st</sup> sampling date for all parameters<sup>5</sup>, with cadmium, chromium-VI, lead, mercury, nickel, silver, and zinc not detected or below laboratory reporting limits during the May 1-2 sampling (Figure 1). For aluminum, iron, and arsenic, total concentrations also declined substantially from late January to early May.

During the May sampling, detections of arsenic, chromium, and copper were below the EPA or California primary minimum contaminant levels (MCL)<sup>6</sup> for drinking water of 0.01, 0.05, and 1.3 mg/L, respectively. For aluminum and iron, which are primarily regulated as secondary drinking water MCLs (non-mandatory water quality standards -see footnote 1), several stations (KWA downstream to HCR) continued to exceed the 1 mg/L California Primary MCL for aluminum. Total aluminum at all stations, and total iron (at all stations except JCB up) exceeded the EPA secondary MCLs of 0.2 mg/L and 0.3 mg/L. However, these total aluminum and iron values represent raw water, and drinking water systems such as the one operated by CalTrans at the I5 Rest Area<sup>7</sup> use flocculation and filtration prior to chlorination and use for potable water. As shown by the results for dissolved metals, concentrations of aluminum and iron were well below drinking water thresholds (Figure 2; highest dissolved aluminum was 0.0702 mg/L at PA1, and highest dissolved iron was 0.0809 mg/L at IG). These dissolved results would reflect concentrations similar to those expected after filtration/flocculation and prior to use as a potable water source. Thresholds for crop irrigation and livestock drinking were not exceeded for any of the total metals analyzed on May 1-2, 2024 (Figure 1).

In summary, Klamath River total metal concentrations in samples collected by CAMAS Environmental Professionals in early May declined sharply from Siskiyou County's late January results. Only total aluminum and iron concentrations exceeded drinking water thresholds

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<sup>5</sup> note that Siskiyou County did not sample above the KWA station.

<sup>6</sup> [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/documents/ccr/mcls\\_epa\\_vs\\_dwp.pdf](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/ccr/mcls_epa_vs_dwp.pdf)

<sup>7</sup> This is the only known public drinking water system using Klamath River water.

(which are primarily secondary MCLs), and dissolved concentrations of all analyzed metals were well below drinking water thresholds. In addition, thresholds for crop irrigation and livestock drinking were not exceeded for any of the analyzed total metals. Results of this monitoring effort indicate that metals in Klamath River water at the time of the May sampling event at the sampled locations were at safe concentrations for recreational and agricultural uses, and for use as a raw water source for public drinking water systems that include filtration and treatment<sup>8</sup>.

#### References Cited:

CKM Environmental. 2024. Klamath Dam Removal Project – Siskiyou County Environmental Health Water Quality Sampling Results for Heavy Metals Memorandum. Memorandum prepared by C. Murphy, CKM Environmental for The Siskiyou County Board of Supervisors, March 1, 2024.

Camas Environmental Professionals. 2024. KRRC Enhanced Metals Sampling with attached SWAMP California Surface Water Ambient Monitoring Program Standard Operating Procedures for Water Sampling. Prepared by CAMAS Environmental Professionals for KRRC, April 2024.

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<sup>8</sup> Testing of finished water would be required for confirmation of safe levels.

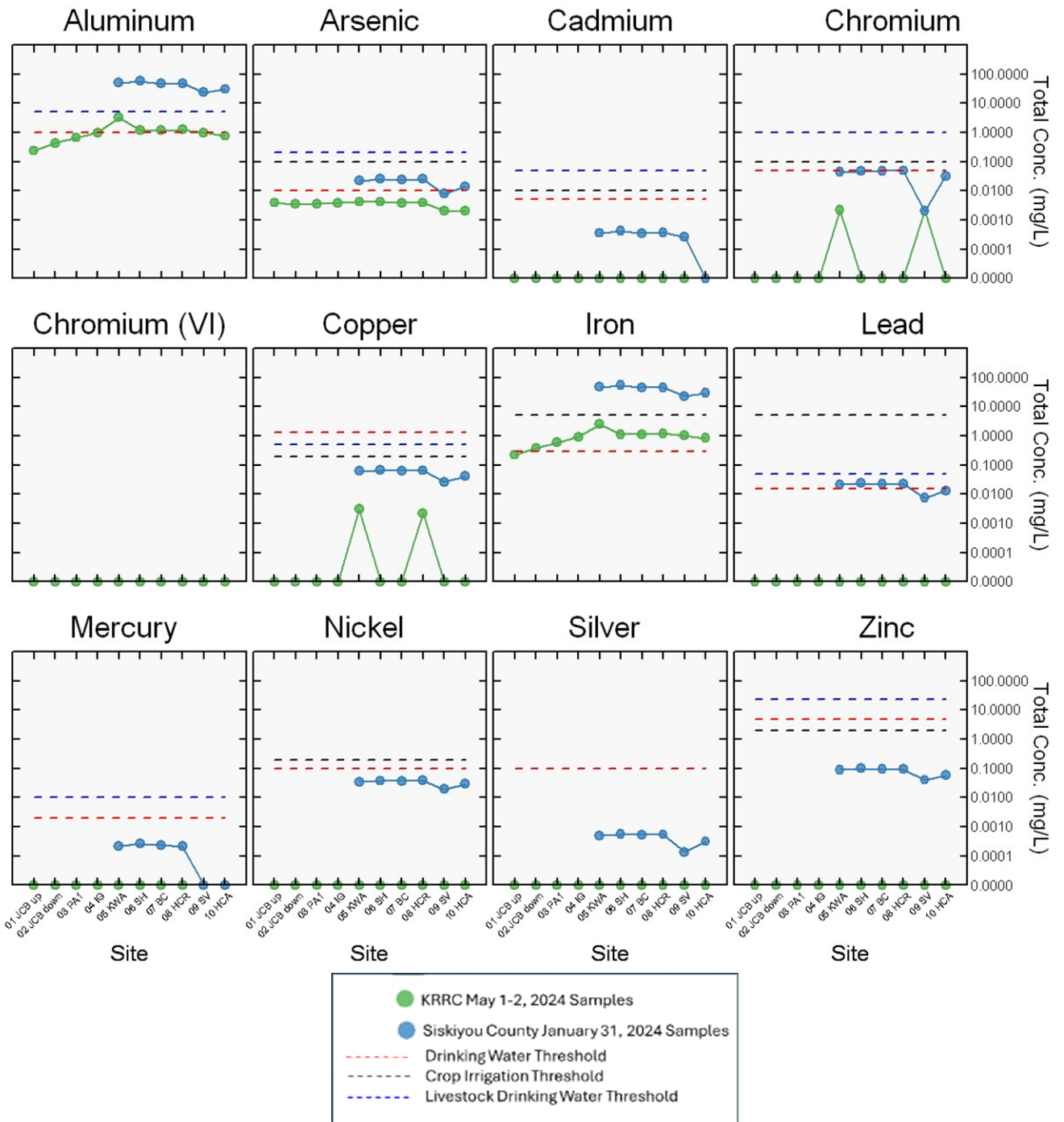


Figure 1. Klamath River total metal concentrations May 1-2, 2024. Sites ordered longitudinally from upstream (left) to downstream (right) on the x-axis. Y-axis is log-base 10. Thresholds are as defined in footnotes 1 and 2. Siskiyou County data are as described in CKM Environmental (2024).

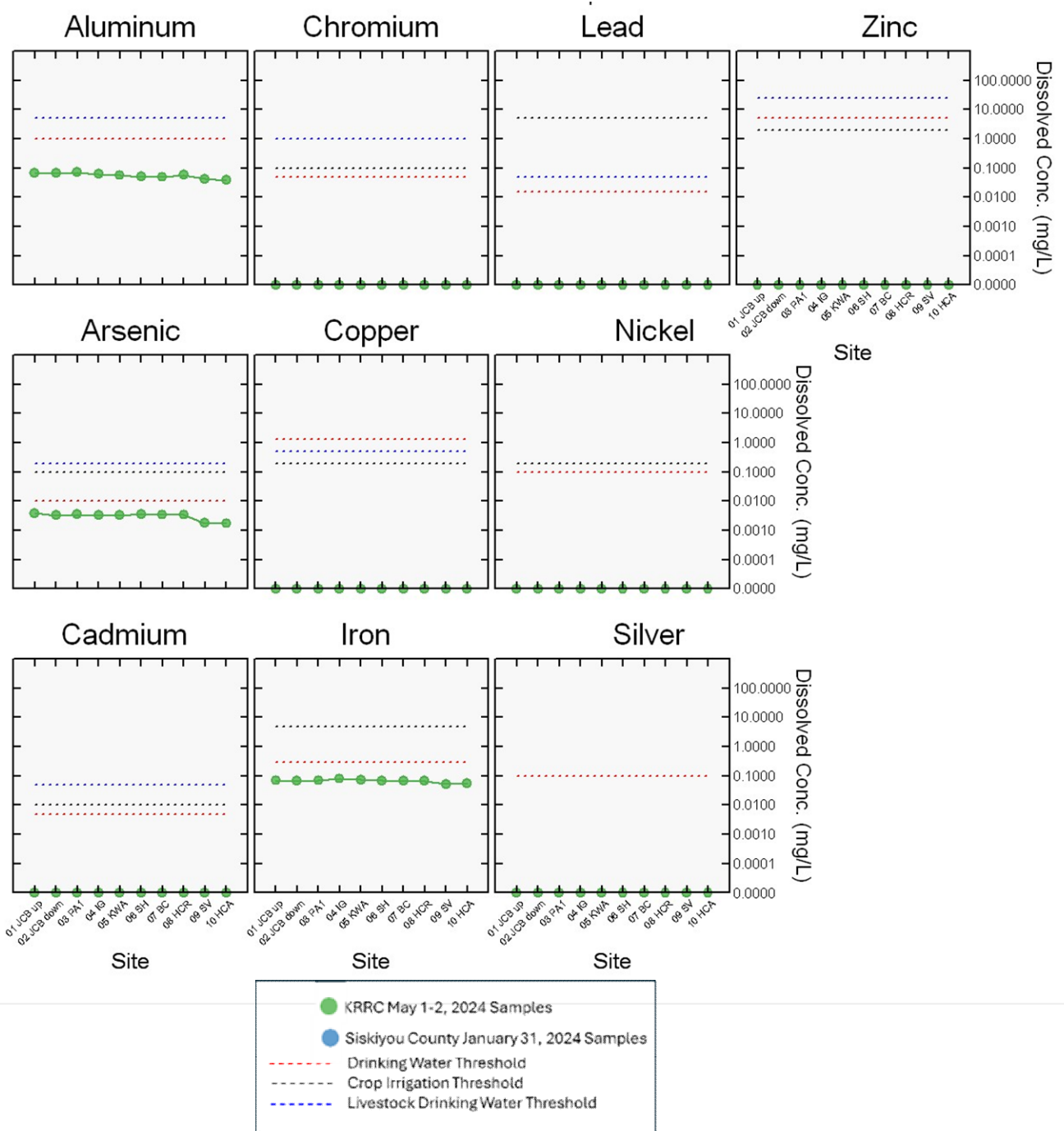


Figure 2. Klamath River dissolved metal concentrations May 1-2, 2024. Sites ordered longitudinally from upstream (left) to downstream (right) on the x-axis. Y-axis is log-base 10. Thresholds are as defined in footnotes 1 and 2. Siskiyou County did not perform dissolved metals sampling.



**Appendix I: Nielsen Research Corporation May 1-2, 2024 Laboratory Results**



Neilson Research Corporation  
245 S Grape St  
Medford, OR 97501  
TEL: (541) 770-5678 FAX: (541) 770-2901  
Website: www.nrclabs.com

May 13, 2024

Matt Robart  
Camas LLC  
680 G St  
Jacksonville, OR 97530  
TEL: (541) 231-9392  
FAX

RE: Lower Klamath Metals-AMENDED

Order No.: 24050048

Dear Matt Robart:

Neilson Research Corporation received 8 sample(s) on 5/1/2024 for the analyses presented in the following report.

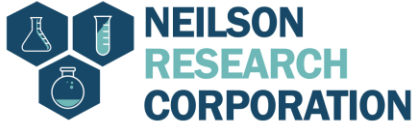
The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,  
Neilson Research Corporation

Tamra Schmedemann  
Senior Project Manager  
245 S Grape St  
Medford, OR 97501



Revision v1



Neilson Research Corporation  
245 S Grape St  
Medford, OR 97501  
TEL: (541) 770-5678 FAX: (541) 770-2901  
Website: www.nrclabs.com

## Case Narrative

WO#: 24050048  
Date: 5/13/2024

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**CLIENT:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

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The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

The report is amended adding "L" flags to all of the Dissolved Metals results since the samples were lab filtered for the dissolved analytes.

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Revision v1



Neilson Research Corporation  
 245 S Grape St  
 Medford, OR 97501  
 TEL: (541) 770-5678 FAX: (541) 770-2901  
 Website: www.nrclabs.com

# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-01  
**Client Sample ID:** PA1  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 7:30:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:29	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 12:34	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0702	L	1	0.00895	0.0200	mg/L	05/09/24 19:15	CBB
Iron, Dissolved	E200.7	A	0.0704	L	1	0.00858	0.0150	mg/L	05/09/24 19:15	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	0.659		1	0.00895	0.0200	mg/L	05/07/24 20:38	CBB
Iron	E200.7	A	0.584		1	0.00858	0.0150	mg/L	05/07/24 20:38	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	43.2		1	0.258	1.65	mg/L	05/07/24 20:38	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00351	L	1	0.000158	0.000500	mg/L	05/09/24 18:11	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:11	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:11	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:11	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:11	CBB
Nickel, Dissolved	E200.8	A	ND	L	1	0.000562	0.0100	mg/L	05/09/24 18:11	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:11	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

**NELAP** NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



Neilson Research Corporation  
 245 S Grape St  
 Medford, OR 97501  
 TEL: (541) 770-5678 FAX: (541) 770-2901  
 Website: www.nrclabs.com

# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-01  
**Client Sample ID** PA1  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 7:30:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:11	CBB
<b>TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic	E200.8	A	0.00357	1	0.000158	0.000500	mg/L		05/03/24 23:46	CBB
Cadmium	E200.8	A	ND	1	0.0000254	0.000250	mg/L		05/03/24 23:46	CBB
Chromium	E200.8	A	0.000819 J	1	0.000593	0.00200	mg/L		05/03/24 23:46	CBB
Copper	E200.8	A	0.00168 J	1	0.000687	0.00200	mg/L		05/03/24 23:46	CBB
Lead	E200.8	A	0.000295 J	1	0.000225	0.00100	mg/L		05/03/24 23:46	CBB
Nickel	E200.8	A	0.000694 J	1	0.000562	0.0100	mg/L		05/03/24 23:46	CBB
Silver	E200.8	A	ND	1	0.0000326	0.000100	mg/L		05/03/24 23:46	CBB
Zinc	E200.8	A	0.00268 J	1	0.000684	0.00500	mg/L		05/03/24 23:46	CBB
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	3.76	1	0.0989	0.500	mg/L		05/02/24 14:30	TCB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

**NELAP** NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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 Website: www.nrclabs.com

# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-02  
**Client Sample ID:** IG  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 8:40:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:31	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 12:44	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0605	L	1	0.00895	0.0200	mg/L	05/09/24 19:25	CBB
Iron, Dissolved	E200.7	A	0.0809	L	1	0.00858	0.0150	mg/L	05/09/24 19:25	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	0.970		1	0.00895	0.0200	mg/L	05/07/24 20:42	CBB
Iron	E200.7	A	0.920		1	0.00858	0.0150	mg/L	05/07/24 20:42	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	47.4		1	0.258	1.65	mg/L	05/07/24 20:42	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00322	L	1	0.000158	0.000500	mg/L	05/09/24 18:14	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:14	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:14	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:14	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:14	CBB
Nickel, Dissolved	E200.8	A	ND	L	1	0.000562	0.0100	mg/L	05/09/24 18:14	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:14	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

**NELAP** NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



Neilson Research Corporation  
 245 S Grape St  
 Medford, OR 97501  
 TEL: (541) 770-5678 FAX: (541) 770-2901  
 Website: www.nrclabs.com

# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-02  
**Client Sample ID:** IG  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 8:40:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
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**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:14	CBB
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**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00378	1	0.000158	0.000500	mg/L		05/07/24 18:51	CJS
Cadmium	E200.8	A	ND	1	0.0000254	0.000250	mg/L		05/07/24 18:51	CJS
Chromium	E200.8	A	0.000821 J	1	0.000593	0.00200	mg/L		05/07/24 18:51	CJS
Copper	E200.8	A	0.00158 J	1	0.000687	0.00200	mg/L		05/07/24 18:51	CJS
Lead	E200.8	A	0.000365 J	1	0.000225	0.00100	mg/L		05/07/24 18:51	CJS
Nickel	E200.8	A	0.000890 J	1	0.000562	0.0100	mg/L		05/07/24 18:51	CJS
Silver	E200.8	A	ND	1	0.0000326	0.000100	mg/L		05/07/24 18:51	CJS
Zinc	E200.8	A	0.00196 J	1	0.000684	0.00500	mg/L		05/07/24 18:51	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	3.47	1	0.0989	0.500	mg/L		05/02/24 14:48	TCB
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**QUALIFIERS**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Revision v1

**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-03  
**Client Sample ID:** KWA  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 9:15:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:33	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 12:55	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0557	L	1	0.00895	0.0200	mg/L	05/09/24 19:28	CBB
Iron, Dissolved	E200.7	A	0.0744	L	1	0.00858	0.0150	mg/L	05/09/24 19:28	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	3.21		1	0.00895	0.0200	mg/L	05/07/24 20:45	CBB
Iron	E200.7	A	2.47		1	0.00858	0.0150	mg/L	05/07/24 20:45	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	49.8		1	0.258	1.65	mg/L	05/07/24 20:45	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00325	L	1	0.000158	0.000500	mg/L	05/09/24 18:17	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:17	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:17	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:17	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:17	CBB
Nickel, Dissolved	E200.8	A	ND	L	1	0.000562	0.0100	mg/L	05/09/24 18:17	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:17	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-03  
**Client Sample ID:** KWA  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 9:15:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:17	CBB
<b>TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic	E200.8	A	0.00414	1	0.000158	0.000500	mg/L		05/07/24 20:37	CJS
Cadmium	E200.8	A	ND	1	0.0000254	0.000250	mg/L		05/07/24 20:37	CJS
Chromium	E200.8	A	0.00215	1	0.000593	0.00200	mg/L		05/07/24 20:37	CJS
Copper	E200.8	A	0.00307	1	0.000687	0.00200	mg/L		05/07/24 20:37	CJS
Lead	E200.8	A	0.000717 J	1	0.000225	0.00100	mg/L		05/07/24 20:37	CJS
Nickel	E200.8	A	0.00233 J	1	0.000562	0.0100	mg/L		05/07/24 20:37	CJS
Silver	E200.8	A	ND	1	0.0000326	0.000100	mg/L		05/07/24 20:37	CJS
Zinc	E200.8	A	0.00467 J	1	0.000684	0.00500	mg/L		05/07/24 20:37	CJS
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	3.50	1	0.0989	0.500	mg/L		05/02/24 15:07	TCB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-04  
**Client Sample ID:** SH  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 9:50:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

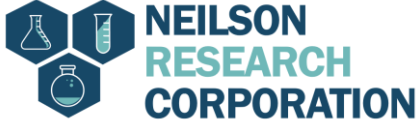
Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:36	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 13:05	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0497	L	1	0.00895	0.0200	mg/L	05/09/24 19:32	CBB
Iron, Dissolved	E200.7	A	0.0692	L	1	0.00858	0.0150	mg/L	05/09/24 19:32	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	1.20		1	0.00895	0.0200	mg/L	05/07/24 20:48	CBB
Iron	E200.7	A	1.11		1	0.00858	0.0150	mg/L	05/07/24 20:48	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	61.7		1	0.258	1.65	mg/L	05/07/24 20:48	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00362	L	1	0.000158	0.000500	mg/L	05/09/24 18:25	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:25	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:25	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:25	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:25	CBB
Nickel, Dissolved	E200.8	A	0.000576	JL	1	0.000562	0.0100	mg/L	05/09/24 18:25	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:25	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-04  
**Client Sample ID:** SH  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 9:50:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
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**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:25	CBB
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**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00416		1	0.000158	0.000500	mg/L	05/07/24 20:40	CJS
Cadmium	E200.8	A	ND		1	0.0000254	0.000250	mg/L	05/07/24 20:40	CJS
Chromium	E200.8	A	0.00196	J	1	0.000593	0.00200	mg/L	05/07/24 20:40	CJS
Copper	E200.8	A	0.00180	J	1	0.000687	0.00200	mg/L	05/07/24 20:40	CJS
Lead	E200.8	A	0.000390	J	1	0.000225	0.00100	mg/L	05/07/24 20:40	CJS
Nickel	E200.8	A	0.00171	J	1	0.000562	0.0100	mg/L	05/07/24 20:40	CJS
Silver	E200.8	A	ND		1	0.0000326	0.000100	mg/L	05/07/24 20:40	CJS
Zinc	E200.8	A	0.00234	J	1	0.000684	0.00500	mg/L	05/07/24 20:40	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	3.60		1	0.0989	0.500	mg/L	05/02/24 15:25	TCB
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**QUALIFIERS**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-05  
**Client Sample ID:** BC  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 10:30:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:38	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 13:15	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0487	L	1	0.00895	0.0200	mg/L	05/09/24 19:35	CBB
Iron, Dissolved	E200.7	A	0.0664	L	1	0.00858	0.0150	mg/L	05/09/24 19:35	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	1.17		1	0.00895	0.0200	mg/L	05/07/24 20:52	CBB
Iron	E200.7	A	1.12		1	0.00858	0.0150	mg/L	05/07/24 20:52	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	67.3		1	0.258	1.65	mg/L	05/07/24 20:52	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00340	L	1	0.000158	0.000500	mg/L	05/09/24 18:27	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:27	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:27	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:27	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:27	CBB
Nickel, Dissolved	E200.8	A	0.000888	JL	1	0.000562	0.0100	mg/L	05/09/24 18:27	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:27	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-05  
**Client Sample ID:** BC  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 10:30:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
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**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:27	CBB
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**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00381		1	0.000158	0.000500	mg/L	05/07/24 20:42	CJS
Cadmium	E200.8	A	ND		1	0.0000254	0.000250	mg/L	05/07/24 20:42	CJS
Chromium	E200.8	A	0.00113	J	1	0.000593	0.00200	mg/L	05/07/24 20:42	CJS
Copper	E200.8	A	0.00182	J	1	0.000687	0.00200	mg/L	05/07/24 20:42	CJS
Lead	E200.8	A	0.000388	J	1	0.000225	0.00100	mg/L	05/07/24 20:42	CJS
Nickel	E200.8	A	0.00191	J	1	0.000562	0.0100	mg/L	05/07/24 20:42	CJS
Silver	E200.8	A	ND		1	0.0000326	0.000100	mg/L	05/07/24 20:42	CJS
Zinc	E200.8	A	0.00233	J	1	0.000684	0.00500	mg/L	05/07/24 20:42	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	3.47		1	0.0989	0.500	mg/L	05/02/24 15:43	TCB
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**QUALIFIERS**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Revision v1

**NELAP**

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-06  
**Client Sample ID:** HCR  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 11:05:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:43	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 13:26	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0571	L	1	0.00895	0.0200	mg/L	05/09/24 19:38	CBB
Iron, Dissolved	E200.7	A	0.0674	L	1	0.00858	0.0150	mg/L	05/09/24 19:38	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	1.23		1	0.00895	0.0200	mg/L	05/07/24 20:55	CBB
Iron	E200.7	A	1.21		1	0.00858	0.0150	mg/L	05/07/24 20:55	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	66.5		1	0.258	1.65	mg/L	05/07/24 20:55	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00343	L	1	0.000158	0.000500	mg/L	05/09/24 18:30	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:30	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:30	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:30	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:30	CBB
Nickel, Dissolved	E200.8	A	0.000865	JL	1	0.000562	0.0100	mg/L	05/09/24 18:30	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:30	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-06  
**Client Sample ID:** HCR  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 11:05:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Zinc, Dissolved	E200.8	A	0.000700 JL	1	0.000685	0.00500	mg/L		05/09/24 18:30	CBB
<b>TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic	E200.8	A	0.00386	1	0.000158	0.000500	mg/L		05/07/24 20:45	CJS
Cadmium	E200.8	A	ND	1	0.0000254	0.000250	mg/L		05/07/24 20:45	CJS
Chromium	E200.8	A	0.00148 J	1	0.000593	0.00200	mg/L		05/07/24 20:45	CJS
Copper	E200.8	A	0.00224	1	0.000687	0.00200	mg/L		05/07/24 20:45	CJS
Lead	E200.8	A	0.000396 J	1	0.000225	0.00100	mg/L		05/07/24 20:45	CJS
Nickel	E200.8	A	0.00231 J	1	0.000562	0.0100	mg/L		05/07/24 20:45	CJS
Silver	E200.8	A	ND	1	0.0000326	0.000100	mg/L		05/07/24 20:45	CJS
Zinc	E200.8	A	0.00273 J	1	0.000684	0.00500	mg/L		05/07/24 20:45	CJS
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	3.38	1	0.0989	0.500	mg/L		05/02/24 16:01	TCB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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 Website: www.nrclabs.com

# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-07  
**Client Sample ID:** SV  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 11:50:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	0.000156 J	1	0.000153	0.000200	mg/L		05/08/24 10:52	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 13:36	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0418 L	1	0.00895	0.0200	mg/L		05/10/24 17:45	CBB
Iron, Dissolved	E200.7	A	0.0527 L	1	0.00858	0.0150	mg/L		05/10/24 17:45	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	0.970	1	0.00895	0.0200	mg/L		05/07/24 20:58	CBB
Iron	E200.7	A	1.03	1	0.00858	0.0150	mg/L		05/07/24 20:58	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	70.6	1	0.258	1.65	mg/L		05/07/24 20:58	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00176 L	1	0.000158	0.000500	mg/L		05/09/24 18:33	CBB
Cadmium, Dissolved	E200.8	A	ND L	1	0.0000254	0.000250	mg/L		05/09/24 18:33	CBB
Chromium, Dissolved	E200.8	A	ND L	1	0.000593	0.00200	mg/L		05/09/24 18:33	CBB
Copper, Dissolved	E200.8	A	ND L	1	0.000687	0.00200	mg/L		05/09/24 18:33	CBB
Lead, Dissolved	E200.8	A	ND L	1	0.000225	0.00100	mg/L		05/09/24 18:33	CBB
Nickel, Dissolved	E200.8	A	0.00209 JL	1	0.000562	0.0100	mg/L		05/09/24 18:33	CBB
Silver, Dissolved	E200.8	A	ND L	1	0.0000326	0.000100	mg/L		05/09/24 18:33	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-07  
**Client Sample ID:** SV  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 11:50:00 AM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
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**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:33	CBB
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**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00206		1	0.000158	0.000500	mg/L	05/07/24 20:48	CJS
Cadmium	E200.8	A	ND		1	0.0000254	0.000250	mg/L	05/07/24 20:48	CJS
Chromium	E200.8	A	0.00207		1	0.000593	0.00200	mg/L	05/07/24 20:48	CJS
Copper	E200.8	A	0.00186	J	1	0.000687	0.00200	mg/L	05/07/24 20:48	CJS
Lead	E200.8	A	0.000266	J	1	0.000225	0.00100	mg/L	05/07/24 20:48	CJS
Nickel	E200.8	A	0.00514	J	1	0.000562	0.0100	mg/L	05/07/24 20:48	CJS
Silver	E200.8	A	ND		1	0.0000326	0.000100	mg/L	05/07/24 20:48	CJS
Zinc	E200.8	A	0.00231	J	1	0.000684	0.00500	mg/L	05/07/24 20:48	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	2.71		1	0.0989	0.500	mg/L	05/02/24 16:19	TCB
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**QUALIFIERS**

- C1 Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- MI Recovery outside control limits due to Matrix Interference
- PL Permit Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-08  
**Client Sample ID:** HCA  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 12:35:00 PM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

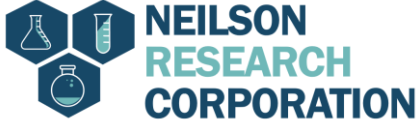
Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>											
Mercury	E245.1	A	0.000174	J	1	0.000153	0.000200	mg/L		05/08/24 10:54	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>											
Chromium, Hexavalent	E218.6	A	ND		1	0.0840	2.00	µg/L		05/08/24 13:47	SME
<b>DISSOLVED TRACE METALS</b>											
Aluminum, Dissolved	E200.7	A	0.0384	L	1	0.00895	0.0200	mg/L		05/10/24 17:48	CBB
Iron, Dissolved	E200.7	A	0.0548	L	1	0.00858	0.0150	mg/L		05/10/24 17:48	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>											
Aluminum	E200.7	A	0.757		1	0.00895	0.0200	mg/L		05/07/24 21:10	CBB
Iron	E200.7	A	0.825		1	0.00858	0.0150	mg/L		05/07/24 21:10	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>											
Hardness, Total (As CaCO3)	A2340B	A	68.5		1	0.258	1.65	mg/L		05/07/24 21:10	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>											
Arsenic, Dissolved	E200.8	A	0.00172	L	1	0.000158	0.000500	mg/L		05/09/24 18:35	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L		05/09/24 18:35	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L		05/09/24 18:35	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L		05/09/24 18:35	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L		05/09/24 18:35	CBB
Nickel, Dissolved	E200.8	A	0.00210	JL	1	0.000562	0.0100	mg/L		05/09/24 18:35	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L		05/09/24 18:35	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050048  
 Date Reported: 5/13/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050048-08  
**Client Sample ID:** HCA  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/1/2024 12:35:00 PM  
**Received Date:** 5/1/2024 3:37:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
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**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:35	CBB
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**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00197		1	0.000158	0.000500	mg/L	05/07/24 20:51	CJS
Cadmium	E200.8	A	ND		1	0.0000254	0.000250	mg/L	05/07/24 20:51	CJS
Chromium	E200.8	A	0.00163	J	1	0.000593	0.00200	mg/L	05/07/24 20:51	CJS
Copper	E200.8	A	0.00150	J	1	0.000687	0.00200	mg/L	05/07/24 20:51	CJS
Lead	E200.8	A	ND		1	0.000225	0.00100	mg/L	05/07/24 20:51	CJS
Nickel	E200.8	A	0.00436	J	1	0.000562	0.0100	mg/L	05/07/24 20:51	CJS
Silver	E200.8	A	ND		1	0.0000326	0.000100	mg/L	05/07/24 20:51	CJS
Zinc	E200.8	A	0.00178	J	1	0.000684	0.00500	mg/L	05/07/24 20:51	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	2.57		1	0.0989	0.500	mg/L	05/02/24 16:37	TCB
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**QUALIFIERS**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Revision v1

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# QC SUMMARY REPORT

WO#: 24050048

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** EPA218.6\_WTOTAL

Sample ID: <b>LCS-R49407</b>	SampType: <b>LCS</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811607</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium, Hexavalent 3.59 2.00 3.500 0 103 90 110

Sample ID: <b>MBLK-R49407</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>
Client ID: <b>PBW</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811609</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium, Hexavalent ND 2.00

Sample ID: <b>24041228-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811611</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium, Hexavalent 3.90 2.00 4.000 0 97.6 90 110

Sample ID: <b>24041228-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811612</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium, Hexavalent 3.90 2.00 4.000 0 97.4 90 110 3.904 0.202 10

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceeds  
 J Analyte detected below quantitation limits MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit  
 PL Permit Limit RL Reporting Detection Limit

Revision v1



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# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** HG\_W

Sample ID: <b>MB-25155</b>	SampType: <b>MBLK</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>
Client ID: <b>PBW</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811100</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.000200

Sample ID: <b>LCS-25155</b>	SampType: <b>LCS</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>
Client ID: <b>LCSW</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811101</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.00408 0.000200 0.004000 0 102 85 115

Sample ID: <b>24050196-02BMS</b>	SampType: <b>MS</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811119</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.00416 0.000200 0.004000 0 104 75 125

Sample ID: <b>24050196-02BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811120</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.00429 0.000200 0.004000 0 107 75 125 0.004160 3.08 20

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceeds  
 J Analyte detected below quantitation limits MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit  
 PL Permit Limit RL Reporting Detection Limit

Revision v1



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# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W

Sample ID: <b>MB-25141</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25141</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811003</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0142	0.0200									J
Iron	ND	0.0150									

Sample ID: <b>LCS-25141</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25141</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811004</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.01	0.0200	1.000	0	101	85	115				
Iron	1.00	0.0150	1.000	0	100	85	115				

Sample ID: <b>24041156-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25141</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811008</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	13.6	0.0200	11.00	0.3890	120	70	130				
Iron	10.5	0.0150	11.00	0.4506	91.6	70	130				

Sample ID: <b>24041156-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25141</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811009</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	13.6	0.0200	11.00	0.3890	120	70	130	13.56	0.147	20	

**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W

Sample ID: <b>24041156-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25141</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811009</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10.5	0.0150	11.00	0.4506	91.2	70	130	10.53	0.438	20	

**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W\_DISS2

Sample ID: <b>MB-25176</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812362</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	ND	0.0200									
Iron, Dissolved	ND	0.0150									

Sample ID: <b>LCS-25176</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812363</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	0.990	0.0200	1.000	0	99.0	85	115				
Iron, Dissolved	0.999	0.0150	1.000	0	99.9	85	115				

Sample ID: <b>24050048-01BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>PA1</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812365</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	11.0	0.0200	11.00	0.07019	99.3	70	130				
Iron, Dissolved	11.0	0.0150	11.00	0.07037	99.6	70	130				

Sample ID: <b>24050048-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>PA1</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812366</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	11.3	0.0200	11.00	0.07019	102	70	130	10.99	2.72	20	
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**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

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# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W\_DISS2

Sample ID: <b>24050048-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>PA1</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812366</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron, Dissolved	11.3	0.0150	11.00	0.07037	102	70	130	11.02	2.65	20	

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

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# QC SUMMARY REPORT

WO#: 24050048

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_HARD\_W

Sample ID: <b>MB-25141</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49387</b>
Client ID: <b>PBW</b>	Batch ID: <b>25141</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811296</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	ND	1.65			

Sample ID: <b>LCS-25141</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49387</b>
Client ID: <b>LCSW</b>	Batch ID: <b>25141</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811297</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	6.61	1.65	6.615	0	100 85 115

Sample ID: <b>24041156-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49494</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>25141</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/10/2024</b>	SeqNo: <b>813006</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	2320	16.5	72.80	2243	106 70 130

Sample ID: <b>24041156-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49494</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>25141</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/10/2024</b>	SeqNo: <b>813007</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	2370	16.5	72.80	2243	180 70 130 2321 2.28 20 MI

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050048

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_DISS2

Sample ID: <b>MB-25194</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812522</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	ND	0.000500									
Cadmium, Dissolved	ND	0.000250									
Chromium, Dissolved	ND	0.00200									
Copper, Dissolved	ND	0.00200									
Lead, Dissolved	ND	0.00100									
Nickel, Dissolved	ND	0.0100									
Silver, Dissolved	ND	0.000100									
Zinc, Dissolved	ND	0.00500									

Sample ID: <b>LCS-25194</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812523</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	0.0985	0.000500	0.1000	0	98.5	85	115				
Cadmium, Dissolved	0.0980	0.000250	0.1000	0	98.0	85	115				
Chromium, Dissolved	0.0995	0.00200	0.1000	0	99.5	85	115				
Copper, Dissolved	0.103	0.00200	0.1000	0	103	85	115				
Lead, Dissolved	0.0991	0.00100	0.1000	0	99.1	85	115				
Nickel, Dissolved	0.0992	0.0100	0.1000	0	99.2	85	115				
Silver, Dissolved	0.0994	0.000100	0.1000	0	99.4	85	115				
Zinc, Dissolved	0.0986	0.00500	0.1000	0	98.6	85	115				

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_DISS2

Sample ID: <b>24050048-03BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>KWA</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812527</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	0.106	0.000500	0.1000	0.003251	103	70	130				
Cadmium, Dissolved	0.102	0.000250	0.1000	0	102	70	130				
Chromium, Dissolved	0.104	0.00200	0.1000	0	104	70	130				
Copper, Dissolved	0.107	0.00200	0.1000	0	107	70	130				
Lead, Dissolved	0.103	0.00100	0.1000	0	103	70	130				
Nickel, Dissolved	0.103	0.0100	0.1000	0	103	70	130				
Silver, Dissolved	0.101	0.000100	0.1000	0	101	70	130				
Zinc, Dissolved	0.103	0.00500	0.1000	0	103	70	130				

Sample ID: <b>24050048-03BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>KWA</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812528</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	0.104	0.000500	0.1000	0.003251	100	70	130	0.1063	2.66	20	
Cadmium, Dissolved	0.100	0.000250	0.1000	0	100	70	130	0.1024	2.01	20	
Chromium, Dissolved	0.101	0.00200	0.1000	0	101	70	130	0.1043	3.30	20	
Copper, Dissolved	0.104	0.00200	0.1000	0	104	70	130	0.1068	2.51	20	
Lead, Dissolved	0.101	0.00100	0.1000	0	101	70	130	0.1034	2.52	20	
Nickel, Dissolved	0.100	0.0100	0.1000	0	100	70	130	0.1030	2.62	20	
Silver, Dissolved	0.0993	0.000100	0.1000	0	99.3	70	130	0.1010	1.66	20	
Zinc, Dissolved	0.101	0.00500	0.1000	0	101	70	130	0.1033	2.40	20	

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050048

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_W

Sample ID: <b>MB-25128</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/3/2024</b>	RunNo: <b>49307</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25128</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/3/2024</b>	SeqNo: <b>809785</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.000500									
Cadmium	ND	0.000250									
Chromium	ND	0.00200									
Copper	ND	0.00200									
Lead	ND	0.00100									
Nickel	ND	0.0100									
Silver	ND	0.000100									
Zinc	ND	0.00500									

Sample ID: <b>LCS-25128</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/3/2024</b>	RunNo: <b>49307</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25128</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/3/2024</b>	SeqNo: <b>809786</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0982	0.000500	0.1000	0	98.2	85	115				
Cadmium	0.0998	0.000250	0.1000	0	99.8	85	115				
Chromium	0.102	0.00200	0.1000	0	102	85	115				
Copper	0.107	0.00200	0.1000	0	107	85	115				
Lead	0.103	0.00100	0.1000	0	103	85	115				
Nickel	0.103	0.0100	0.1000	0	103	85	115				
Silver	0.102	0.000100	0.1000	0	102	85	115				
Zinc	0.101	0.00500	0.1000	0	101	85	115				

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_W

Sample ID: <b>24041105-01BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/3/2024</b>	RunNo: <b>49307</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25128</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/3/2024</b>	SeqNo: <b>809788</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.101	0.000500	0.1000	0.001470	99.1	70	130				
Cadmium	0.100	0.000250	0.1000	0	100	70	130				
Chromium	0.102	0.00200	0.1000	0.0007630	101	70	130				
Copper	0.107	0.00200	0.1000	0.002750	104	70	130				
Lead	0.101	0.00100	0.1000	0.0002940	101	70	130				
Nickel	0.103	0.0100	0.1000	0.002623	100	70	130				
Silver	0.0999	0.000100	0.1000	0	99.9	70	130				
Zinc	0.111	0.00500	0.1000	0.01182	99.4	70	130				

Sample ID: <b>24041105-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/3/2024</b>	RunNo: <b>49307</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25128</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/3/2024</b>	SeqNo: <b>809789</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0996	0.000500	0.1000	0.001470	98.1	70	130	0.1006	0.990	20	
Cadmium	0.0994	0.000250	0.1000	0	99.4	70	130	0.1004	0.946	20	
Chromium	0.101	0.00200	0.1000	0.0007630	99.9	70	130	0.1020	1.32	20	
Copper	0.105	0.00200	0.1000	0.002750	102	70	130	0.1068	1.65	20	
Lead	0.100	0.00100	0.1000	0.0002940	100	70	130	0.1013	0.838	20	
Nickel	0.102	0.0100	0.1000	0.002623	99.0	70	130	0.1028	1.19	20	
Silver	0.0987	0.000100	0.1000	0	98.7	70	130	0.09987	1.18	20	
Zinc	0.110	0.00500	0.1000	0.01182	98.4	70	130	0.1112	0.906	20	

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

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# QC SUMMARY REPORT

WO#: 24050048

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_W

Sample ID: <b>MB-25138</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810729</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.000500									
Cadmium	ND	0.000250									
Chromium	ND	0.00200									
Copper	ND	0.00200									
Lead	ND	0.00100									
Nickel	ND	0.0100									
Silver	ND	0.000100									
Zinc	ND	0.00500									

Sample ID: <b>LCS-25138</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810730</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.100	0.000500	0.1000	0	100	85	115				
Cadmium	0.100	0.000250	0.1000	0	100	85	115				
Chromium	0.101	0.00200	0.1000	0	101	85	115				
Copper	0.102	0.00200	0.1000	0	102	85	115				
Lead	0.101	0.00100	0.1000	0	101	85	115				
Nickel	0.0997	0.0100	0.1000	0	99.7	85	115				
Silver	0.101	0.000100	0.1000	0	101	85	115				
Zinc	0.0985	0.00500	0.1000	0	98.5	85	115				

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

Revision v1



Neilson Research Corporation  
 245 S Grape St  
 Medford, OR 97501  
 TEL: (541) 770-5678 FAX: (541) 770-2901  
 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: 24050048  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_W

Sample ID: <b>24050048-02AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>IG</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810732</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.106	0.000500	0.1000	0.003776	102	70	130				
Cadmium	0.102	0.000250	0.1000	0	102	70	130				
Chromium	0.102	0.00200	0.1000	0.0008210	102	70	130				
Copper	0.105	0.00200	0.1000	0.001578	103	70	130				
Lead	0.103	0.00100	0.1000	0.0003650	102	70	130				
Nickel	0.102	0.0100	0.1000	0.0008900	101	70	130				
Silver	0.101	0.000100	0.1000	0	101	70	130				
Zinc	0.103	0.00500	0.1000	0.001964	102	70	130				

Sample ID: <b>24050048-02AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>IG</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810733</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.105	0.000500	0.1000	0.003776	101	70	130	0.1058	0.705	20	
Cadmium	0.101	0.000250	0.1000	0	101	70	130	0.1024	1.16	20	
Chromium	0.100	0.00200	0.1000	0.0008210	99.4	70	130	0.1024	2.11	20	
Copper	0.102	0.00200	0.1000	0.001578	101	70	130	0.1048	2.24	20	
Lead	0.101	0.00100	0.1000	0.0003650	101	70	130	0.1027	1.74	20	
Nickel	0.0998	0.0100	0.1000	0.0008900	98.9	70	130	0.1023	2.51	20	
Silver	0.0995	0.000100	0.1000	0	99.5	70	130	0.1009	1.47	20	
Zinc	0.101	0.00500	0.1000	0.001964	98.6	70	130	0.1035	2.81	20	

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: **24050048**  
 20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** TOC\_5310C

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>49276</b>
Client ID: <b>PBW</b>	Batch ID: <b>R49276</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>5/2/2024</b>	SeqNo: <b>809226</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total ND 0.500

Sample ID: <b>LCS - 14323</b>	SampType: <b>LCS</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>49276</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R49276</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>5/2/2024</b>	SeqNo: <b>809227</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total 3.51 0.500 3.750 0 93.6 90 110

Sample ID: <b>24041163-01DDUP</b>	SampType: <b>DUP</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>49276</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R49276</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>5/2/2024</b>	SeqNo: <b>809231</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total 1.41 0.500 1.375 2.49 15

Sample ID: <b>24041163-02DMS</b>	SampType: <b>MS</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>49276</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R49276</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>5/2/2024</b>	SeqNo: <b>809233</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total 3.69 0.500 2.500 1.325 94.7 85 115

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# Sample Log-In Check List

Client Name: **CAMASLLC**

Work Order Number: **24050048**

RcptNo: **1**

Logged by:	<b>Ashley Spiegelberg</b>	<b>5/1/2024 3:37:00 PM</b>	
Completed By:	<b>Erin Hernandez</b>	<b>5/3/2024 9:54:00 AM</b>	
Reviewed By:	<b>Ashley Spiegelberg</b>	<b>5/13/2024 2:17:15 PM</b>	

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

**Log In**

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present
- No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes  No  NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
7. Sample(s) in proper container(s)? Yes  No
8. Sufficient sample volume for indicated test(s)? Yes  No
9. Are samples (except VOA and ONG) properly preserved? Yes  No
10. Was preservative added to bottles? Yes  No  NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials
12. Were any sample containers received broken? Yes  No
13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes  No
15. Is it clear what analyses were requested? Yes  No
16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				EH

**Section A**  
Required Client Information

Company: Camas, LLC  
 Address: 680 G Street  
Suite C, Jacksonville, 97530  
 Email: matt@camasllc.com  
 Phone: 541-231-9392  
 Collected By (Print): Matt Robart  
 Collected By (Sign): Matt Robart  
 Email Report  Mail Report  Fax Report

**Section B**  
Required Project Information

Project Name: Lower Klamath Metals  
 Project Number: \_\_\_\_\_  
 Report To: Matt Robart  
 Copy To: \_\_\_\_\_

**Section C**  
Invoice Information

Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 P.O. # \_\_\_\_\_

**Section D**  
Rush Status (Subject to Scheduling)

Standard: 10 Business Days  
 Priority: 5 Business Days (List x 1.50)  
 Express: 3 Business Days (List x 1.75)  
 Rush: 2 Business Days (List x 2.00)  
 Rush: 1 Business Day (List x 2.50)  
 Rush: Same Day (List x 3.00)  
 Authorized  Yes  No

**Section E**  
Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested
<u>PA1</u>	<u>Grab</u>	<u>W</u>	<u>5/1/24</u>	<u>0730</u>	<u>6</u>	<u>As, Cd, Cr, Cu, Pb, Ni, Ag, Zn</u>
<u>TG</u>	<u>Grab</u>	<u>W</u>	<u>5/1/24</u>	<u>0840</u>	<u>6</u>	<u>metals - Both total + P-PSS</u>
<u>KWA</u>	<u>Grab</u>	<u>V</u>		<u>0915</u>	<u>6</u>	
<u>SH</u>	<u>Grab</u>	<u>W</u>		<u>0950</u>	<u>6</u>	
<u>BC</u>	<u>Grab</u>	<u>V</u>		<u>1030</u>	<u>6</u>	
<u>HCR</u>	<u>Grab</u>	<u>W</u>		<u>1105</u>	<u>6</u>	
<u>SV</u>	<u>Grab</u>	<u>W</u>		<u>1150</u>	<u>6</u>	
<u>HCA</u>	<u>Grab</u>	<u>W</u>		<u>1235</u>	<u>6</u>	

**Analysis Requested**

Analysis	PA1	TG	KWA	SH	BC	HCR	SV	HCA
As	X	X	X	X	X	X	X	X
Cd	X	X	X	X	X	X	X	X
Cr	X	X	X	X	X	X	X	X
Cu	X	X	X	X	X	X	X	X
Pb	X	X	X	X	X	X	X	X
Ni	X	X	X	X	X	X	X	X
Ag	X	X	X	X	X	X	X	X
Zn	X	X	X	X	X	X	X	X
metals - Both total + P-PSS	X	X	X	X	X	X	X	X

2008-As, Cd, Cr, Cu, Pb, Ni, Ag, Zn  
metals - Both total + P-PSS

NRC Workorder #  
 (Lab Use Only) 24050048

Remarks / Field Data	NRC Sample # (Lab Use Only)	(Lab)
<u>01</u>		
<u>02 Diss metals are not</u>		
<u>03 acid filtered</u>		
<u>04 added 5/1/24</u>		
<u>05</u>		
<u>06</u>		
<u>07</u>		
<u>08</u>		

\*Matrix: DW - Drinking Water WW - Wastewater W - Water S - Soil/Solid SL - Sludge O - Oil WP - Wipe OT - Other

**Section F**  
Relinquish/Receive

Relinquished/Received By	Sign	Print	Date	Time
Relinquished By:	<u>[Signature]</u>	<u>Dustin Cokely</u>	<u>May 1, 2024</u>	<u>15:37</u>
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:	<u>[Signature]</u>	<u>Ashley Spiegelberg</u>	<u>5/1/24</u>	<u>15:37</u>

**Section G**  
Lab Use Only

Temp: 0.6 IR Therm ID: M  
 ≤6°C:  Yes  No  
 Received on Ice:  Yes  No  
 Number of Bottles Received: \_\_\_\_\_  
 pH Checked:   
 COC Seals Intact:  Yes  No  NA  
 Field Blank Included:  Yes  No

Received Via  UPS  FedEx  Other  Hand  
 Payment:  Invoice  Cash  VISA, M/C  Check # \_\_\_\_\_ Amount \_\_\_\_\_

- 
- A Total Alkalinity and Bicarbonate Alkalinity results are to a pH endpoint of 4.5. Carbonate Alkalinity result is to a pH endpoint of 8.3.
- A-LL The total low level alkalinity results are to a pH endpoint of 4.3-4.7 pH units per SM 2320B-2011.
- B Analyte detected in the associated method blank.
- C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
- C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
- CF Results confirmed by re-analysis.
- CU Cleanup performed as specified by method.
- E Estimated value.
- ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
- FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
- HP Sample re-analysis performed outside of method specified holding time.
- HR Sample received outside of method specified holding time.
- HS Sample analyzed for volatile organics contained headspace.
- HT At the client's request, the sample was analyzed outside of method specified holding time.
- H Analysis performed outside of method specified holding time.
- J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
- L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
- MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
- N See Case Narrative on page 2 of report.
- Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS), and/or matrix spikes exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
- R Relative percent difference (RPD) is outside of the accepted recovery limits.
- R1 The numerical difference between the parent sample and the duplicate (DUP) is outside of the accepted recovery limits. Greater than 5 degrees for Flashpoint, or greater than 0.1 pH units for pH.
- R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
- R4 The Relative percent difference (RPD) is not within control limits because the concentration of the sample result is too low to represent proper statistical error.
- R5 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30% because the results are too low to represent proper statistical error. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series. The sample results are not affected.
- R6 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30%. This may indicate a possible matrix interference. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series.
- S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
- S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
- SC Sub-contracted to another laboratory for analysis.
- SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
- \* Value exceeds Maximum Contaminant Level or is outside the acceptable range.<<>>



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May 14, 2024

Matt Robart  
Camas LLC  
680 G St  
Jacksonville, OR 97530  
TEL: (541) 231-9392  
FAX

RE: Lower Klamath Metals-AMENDED

Order No.: 24050095

Dear Matt Robart:

Neilson Research Corporation received 2 sample(s) on 5/2/2024 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,  
Neilson Research Corporation

Tamra Schmedemann  
Senior Project Manager  
245 S Grape St  
Medford, OR 97501



Revision v1



**NEILSON  
RESEARCH  
CORPORATION**

*Neilson Research Corporation  
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Medford, OR 97501  
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Website: www.nrclabs.com*

## Case Narrative

WO#: 24050095  
Date: 5/14/2024

---

**CLIENT:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

---

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

The report is amended adding "L" flags to all of the Dissolved Metals results since the samples were lab filtered for the dissolved analytes.

---

Revision v1



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# Analytical Report

WO#: 24050095  
 Date Reported: 5/14/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050095-01  
**Client Sample ID** JCB Up 9  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/2/2024 9:45:00 AM  
**Received Date:** 5/2/2024 1:20:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>										
Mercury	E245.1	A	ND	1	0.000153	0.000200	mg/L		05/08/24 10:57	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>										
Chromium, Hexavalent	E218.6	A	ND	1	0.0840	2.00	µg/L		05/08/24 14:18	SME
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0681	L	1	0.00895	0.0200	mg/L	05/10/24 17:51	CBB
Iron, Dissolved	E200.7	A	0.0706	L	1	0.00858	0.0150	mg/L	05/10/24 17:51	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	0.236		1	0.00895	0.0200	mg/L	05/07/24 21:23	CBB
Iron	E200.7	A	0.223		1	0.00858	0.0150	mg/L	05/07/24 21:23	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>										
Hardness, Total (As CaCO3)	A2340B	A	36.4		1	0.258	1.65	mg/L	05/07/24 21:23	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>										
Arsenic, Dissolved	E200.8	A	0.00383	L	1	0.000158	0.000500	mg/L	05/09/24 18:38	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L	05/09/24 18:38	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L	05/09/24 18:38	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L	05/09/24 18:38	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L	05/09/24 18:38	CBB
Nickel, Dissolved	E200.8	A	ND	L	1	0.000562	0.0100	mg/L	05/09/24 18:38	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L	05/09/24 18:38	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

**NELAP** NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 24050095  
 Date Reported: 5/14/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050095-01  
**Client Sample ID:** JCB Up 9  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/2/2024 9:45:00 AM  
**Received Date:** 5/2/2024 1:20:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
----------	--------	--------------	-------------	----	-----	----	-------	-----	---------------	---------

**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	0.00145	JL	1	0.000685	0.00500	mg/L	05/09/24 18:38	CBB
-----------------	--------	---	---------	----	---	----------	---------	------	----------------	-----

**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00386		1	0.000158	0.000500	mg/L	05/07/24 20:59	CJS
Cadmium	E200.8	A	ND		1	0.0000254	0.000250	mg/L	05/07/24 20:59	CJS
Chromium	E200.8	A	ND		1	0.000593	0.00200	mg/L	05/07/24 20:59	CJS
Copper	E200.8	A	0.000892	J	1	0.000687	0.00200	mg/L	05/07/24 20:59	CJS
Lead	E200.8	A	ND		1	0.000225	0.00100	mg/L	05/07/24 20:59	CJS
Nickel	E200.8	A	ND		1	0.000562	0.0100	mg/L	05/07/24 20:59	CJS
Silver	E200.8	A	ND		1	0.0000326	0.000100	mg/L	05/07/24 20:59	CJS
Zinc	E200.8	A	0.000810	J	1	0.000684	0.00500	mg/L	05/07/24 20:59	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	4.53		1	0.0989	0.500	mg/L	05/06/24 13:36	TCB
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**QUALIFIERS**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Revision v1

**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028





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# Analytical Report

WO#: 24050095  
 Date Reported: 5/14/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050095-02  
**Client Sample ID:** JCB Down 10  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/2/2024 10:45:00 AM  
**Received Date:** 5/2/2024 1:20:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>MERCURY BY EPA 245.1</b>											
Mercury	E245.1	A	0.000167	J	1	0.000153	0.000200	mg/L		05/08/24 10:59	CJS
<b>TOTAL HEXAVALENT CHROMIUM BY EPA 218.6</b>											
Chromium, Hexavalent	E218.6	A	ND		1	0.0840	2.00	µg/L		05/08/24 14:28	SME
<b>DISSOLVED TRACE METALS</b>											
Aluminum, Dissolved	E200.7	A	0.0652	L	1	0.00895	0.0200	mg/L		05/10/24 17:55	CBB
Iron, Dissolved	E200.7	A	0.0675	L	1	0.00858	0.0150	mg/L		05/10/24 17:55	CBB
<b>TRACE METALS BY EPA 200.7 ICP</b>											
Aluminum	E200.7	A	0.432		1	0.00895	0.0200	mg/L		05/07/24 21:26	CBB
Iron	E200.7	A	0.386		1	0.00858	0.0150	mg/L		05/07/24 21:26	CBB
<b>HARDNESS BY EPA 200.7 AND SM 2340B CALCULATION</b>											
Hardness, Total (As CaCO3)	A2340B	A	41.1		1	0.258	1.65	mg/L		05/07/24 21:26	CBB
<b>DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS</b>											
Arsenic, Dissolved	E200.8	A	0.00323	L	1	0.000158	0.000500	mg/L		05/09/24 18:41	CBB
Cadmium, Dissolved	E200.8	A	ND	L	1	0.0000254	0.000250	mg/L		05/09/24 18:41	CBB
Chromium, Dissolved	E200.8	A	ND	L	1	0.000593	0.00200	mg/L		05/09/24 18:41	CBB
Copper, Dissolved	E200.8	A	ND	L	1	0.000687	0.00200	mg/L		05/09/24 18:41	CBB
Lead, Dissolved	E200.8	A	ND	L	1	0.000225	0.00100	mg/L		05/09/24 18:41	CBB
Nickel, Dissolved	E200.8	A	ND	L	1	0.000562	0.0100	mg/L		05/09/24 18:41	CBB
Silver, Dissolved	E200.8	A	ND	L	1	0.0000326	0.000100	mg/L		05/09/24 18:41	CBB

**QUALIFIERS**

C1 Sample container temperature is out of limit as specified at testcode  
 H Holding times for preparation or analysis exceeded  
 MI Recovery outside control limits due to Matrix Interference  
 PL Permit Limit  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit

Revision v1

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# Analytical Report

WO#: 24050095  
 Date Reported: 5/14/2024

**CLIENT:** Camas LLC  
**Lab ID:** 24050095-02  
**Client Sample ID:** JCB Down 10  
**Project:** Lower Klamath Metals-AMENDED  
**Sample Location:** Grab

**Collection Date:** 5/2/2024 10:45:00 AM  
**Received Date:** 5/2/2024 1:20:00 PM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
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**DISSOLVED TRACE METALS BY EPA 200.8 ICP-MS**

Zinc, Dissolved	E200.8	A	ND L	1	0.000685	0.00500	mg/L		05/09/24 18:41	CBB
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**TRACE METALS BY EPA 200.8 ICP-MS**

Arsenic	E200.8	A	0.00342	1	0.000158	0.000500	mg/L		05/07/24 21:01	CJS
Cadmium	E200.8	A	ND	1	0.0000254	0.000250	mg/L		05/07/24 21:01	CJS
Chromium	E200.8	A	ND	1	0.000593	0.00200	mg/L		05/07/24 21:01	CJS
Copper	E200.8	A	0.00128 J	1	0.000687	0.00200	mg/L		05/07/24 21:01	CJS
Lead	E200.8	A	ND	1	0.000225	0.00100	mg/L		05/07/24 21:01	CJS
Nickel	E200.8	A	ND	1	0.000562	0.0100	mg/L		05/07/24 21:01	CJS
Silver	E200.8	A	ND	1	0.0000326	0.000100	mg/L		05/07/24 21:01	CJS
Zinc	E200.8	A	0.00125 J	1	0.000684	0.00500	mg/L		05/07/24 21:01	CJS

**TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	A	3.90	1	0.0989	0.500	mg/L		05/06/24 14:12	TCB
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**QUALIFIERS**

- C1 Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- MI Recovery outside control limits due to Matrix Interference
- PL Permit Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

Revision v1

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# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** EPA218.6\_WTOTAL

Sample ID: <b>LCS-R49407</b>	SampType: <b>LCS</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>		Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811607</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent 3.59 2.00 3.500 0 103 90 110

Sample ID: <b>MBLK-R49407</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>		Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811609</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent ND 2.00

Sample ID: <b>24041228-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>		Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811611</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent 3.90 2.00 4.000 0 97.6 90 110

Sample ID: <b>24041228-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA218.6_W</b>	Units: <b>µg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49407</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R49407</b>	TestNo: <b>E218.6</b>		Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811612</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent 3.90 2.00 4.000 0 97.4 90 110 3.904 0.202 10

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceeds  
 J Analyte detected below quantitation limits MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit  
 PL Permit Limit RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 24050095

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** HG\_W

Sample ID: <b>MB-25155</b>	SampType: <b>MBLK</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811100</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.000200									

Sample ID: <b>LCS-25155</b>	SampType: <b>LCS</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811101</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00408	0.000200	0.004000	0	102	85	115				

Sample ID: <b>24050196-02BMS</b>	SampType: <b>MS</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811119</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00416	0.000200	0.004000	0	104	75	125				

Sample ID: <b>24050196-02BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>HG_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49390</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25155</b>	TestNo: <b>E245.1</b>	<b>E245.1</b>	Analysis Date: <b>5/8/2024</b>	SeqNo: <b>811120</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00429	0.000200	0.004000	0	107	75	125	0.004160	3.08	20	

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W

Sample ID: <b>MB-25159</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25159</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811029</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	ND	0.0200									
Iron	ND	0.0150									

Sample ID: <b>LCS-25159</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25159</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811030</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	1.00	0.0200	1.000	0	100	85	115				
Iron	1.00	0.0150	1.000	0	100	85	115				

Sample ID: <b>24050196-01BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25159</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811034</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	11.9	0.0200	11.00	0.8502	100	70	130				
Iron	11.9	0.0150	11.00	1.328	96.3	70	130				

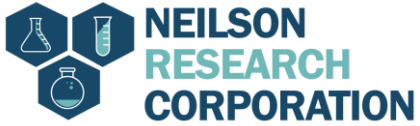
Sample ID: <b>24050196-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25159</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811035</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	12.0	0.0200	11.00	0.8502	101	70	130	11.87	0.655	20	
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**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W

Sample ID: <b>24050196-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49386</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25159</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811035</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	12.0	0.0150	11.00	1.328	96.8	70	130	11.92	0.494	20	

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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# QC SUMMARY REPORT

WO#: 24050095

20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W\_DISS2

Sample ID: <b>MB-25176</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812362</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	ND	0.0200									
Iron, Dissolved	ND	0.0150									

Sample ID: <b>LCS-25176</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812363</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	0.990	0.0200	1.000	0	99.0	85	115				
Iron, Dissolved	0.999	0.0150	1.000	0	99.9	85	115				

Sample ID: <b>24050048-01BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812365</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	11.0	0.0200	11.00	0.07019	99.3	70	130				
Iron, Dissolved	11.0	0.0150	11.00	0.07037	99.6	70	130				

Sample ID: <b>24050048-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812366</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	11.3	0.0200	11.00	0.07019	102	70	130	10.99	2.72	20	
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<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1



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# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_200.7\_W\_DISS2

Sample ID: <b>24050048-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/8/2024</b>	RunNo: <b>49445</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25176</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812366</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron, Dissolved	11.3	0.0150	11.00	0.07037	102	70	130	11.02	2.65	20	

**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Revision v1





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 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICP\_HARD\_W

Sample ID: <b>MB-25159</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49387</b>
Client ID: <b>PBW</b>	Batch ID: <b>25159</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811316</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	0.280	1.65			J

Sample ID: <b>LCS-25159</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49387</b>
Client ID: <b>LCSW</b>	Batch ID: <b>25159</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811317</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	6.55	1.65	6.615	0	99.0 85 115

Sample ID: <b>24050196-01BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49387</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>25159</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811321</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	201	1.65	72.80	135.5	90.5 70 130

Sample ID: <b>24050196-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_HARD_W</b>	Units: <b>mg/L</b>	Prep Date: <b>5/7/2024</b>	RunNo: <b>49387</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>25159</b>	TestNo: <b>A2340B</b>	<b>E200.7</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>811322</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hardness, Total (As CaCO3)	204	1.65	72.80	135.5	94.1 70 130 201.3 1.31 20

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_DISS2

Sample ID: <b>MB-25194</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812522</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	ND	0.000500									
Cadmium, Dissolved	ND	0.000250									
Chromium, Dissolved	ND	0.00200									
Copper, Dissolved	ND	0.00200									
Lead, Dissolved	ND	0.00100									
Nickel, Dissolved	ND	0.0100									
Silver, Dissolved	ND	0.000100									
Zinc, Dissolved	ND	0.00500									

Sample ID: <b>LCS-25194</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812523</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	0.0985	0.000500	0.1000	0	98.5	85	115				
Cadmium, Dissolved	0.0980	0.000250	0.1000	0	98.0	85	115				
Chromium, Dissolved	0.0995	0.00200	0.1000	0	99.5	85	115				
Copper, Dissolved	0.103	0.00200	0.1000	0	103	85	115				
Lead, Dissolved	0.0991	0.00100	0.1000	0	99.1	85	115				
Nickel, Dissolved	0.0992	0.0100	0.1000	0	99.2	85	115				
Silver, Dissolved	0.0994	0.000100	0.1000	0	99.4	85	115				
Zinc, Dissolved	0.0986	0.00500	0.1000	0	98.6	85	115				

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050095

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_DISS2

Sample ID: <b>24050048-03BMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812527</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	0.106	0.000500	0.1000	0.003251	103	70	130				
Cadmium, Dissolved	0.102	0.000250	0.1000	0	102	70	130				
Chromium, Dissolved	0.104	0.00200	0.1000	0	104	70	130				
Copper, Dissolved	0.107	0.00200	0.1000	0	107	70	130				
Lead, Dissolved	0.103	0.00100	0.1000	0	103	70	130				
Nickel, Dissolved	0.103	0.0100	0.1000	0	103	70	130				
Silver, Dissolved	0.101	0.000100	0.1000	0	101	70	130				
Zinc, Dissolved	0.103	0.00500	0.1000	0	103	70	130				

Sample ID: <b>24050048-03BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/9/2024</b>	RunNo: <b>49465</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25194</b>	TestNo: <b>E200.8</b>	<b>E3005</b>	Analysis Date: <b>5/9/2024</b>	SeqNo: <b>812528</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, Dissolved	0.104	0.000500	0.1000	0.003251	100	70	130	0.1063	2.66	20	
Cadmium, Dissolved	0.100	0.000250	0.1000	0	100	70	130	0.1024	2.01	20	
Chromium, Dissolved	0.101	0.00200	0.1000	0	101	70	130	0.1043	3.30	20	
Copper, Dissolved	0.104	0.00200	0.1000	0	104	70	130	0.1068	2.51	20	
Lead, Dissolved	0.101	0.00100	0.1000	0	101	70	130	0.1034	2.52	20	
Nickel, Dissolved	0.100	0.0100	0.1000	0	100	70	130	0.1030	2.62	20	
Silver, Dissolved	0.0993	0.000100	0.1000	0	99.3	70	130	0.1010	1.66	20	
Zinc, Dissolved	0.101	0.00500	0.1000	0	101	70	130	0.1033	2.40	20	

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050095  
 20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_W

Sample ID: <b>MB-25138</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>PBW</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810729</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.000500									
Cadmium	ND	0.000250									
Chromium	ND	0.00200									
Copper	ND	0.00200									
Lead	ND	0.00100									
Nickel	ND	0.0100									
Silver	ND	0.000100									
Zinc	ND	0.00500									

Sample ID: <b>LCS-25138</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810730</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.100	0.000500	0.1000	0	100	85	115				
Cadmium	0.100	0.000250	0.1000	0	100	85	115				
Chromium	0.101	0.00200	0.1000	0	101	85	115				
Copper	0.102	0.00200	0.1000	0	102	85	115				
Lead	0.101	0.00100	0.1000	0	101	85	115				
Nickel	0.0997	0.0100	0.1000	0	99.7	85	115				
Silver	0.101	0.000100	0.1000	0	101	85	115				
Zinc	0.0985	0.00500	0.1000	0	98.5	85	115				

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

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# QC SUMMARY REPORT

WO#: 24050095

20-May-24

**Client:** Camas LLC  
**Project:** Lower Klamath Metals-AMENDED

**TestCode:** ICPMS\_200.8\_W

Sample ID: <b>24050048-02AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810732</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.106	0.000500	0.1000	0.003776	102	70	130				
Cadmium	0.102	0.000250	0.1000	0	102	70	130				
Chromium	0.102	0.00200	0.1000	0.0008210	102	70	130				
Copper	0.105	0.00200	0.1000	0.001578	103	70	130				
Lead	0.103	0.00100	0.1000	0.0003650	102	70	130				
Nickel	0.102	0.0100	0.1000	0.0008900	101	70	130				
Silver	0.101	0.000100	0.1000	0	101	70	130				
Zinc	0.103	0.00500	0.1000	0.001964	102	70	130				

Sample ID: <b>24050048-02AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49370</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>25138</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>810733</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.105	0.000500	0.1000	0.003776	101	70	130	0.1058	0.705	20	
Cadmium	0.101	0.000250	0.1000	0	101	70	130	0.1024	1.16	20	
Chromium	0.100	0.00200	0.1000	0.0008210	99.4	70	130	0.1024	2.11	20	
Copper	0.102	0.00200	0.1000	0.001578	101	70	130	0.1048	2.24	20	
Lead	0.101	0.00100	0.1000	0.0003650	101	70	130	0.1027	1.74	20	
Nickel	0.0998	0.0100	0.1000	0.0008900	98.9	70	130	0.1023	2.51	20	
Silver	0.0995	0.000100	0.1000	0	99.5	70	130	0.1009	1.47	20	
Zinc	0.101	0.00500	0.1000	0.001964	98.6	70	130	0.1035	2.81	20	

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
	J	Analyte detected below quantitation limits	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	RL	Reporting Detection Limit		

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# QC SUMMARY REPORT

WO#: 24050095

20-May-24

**Client:** Camas LLC

**Project:** Lower Klamath Metals-AMENDED

**TestCode:** TOC\_5310C

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49375</b>
Client ID: <b>PBW</b>	Batch ID: <b>R49375</b>	TestNo: <b>A5310C</b>	Analysis Date: <b>5/6/2024</b>	SeqNo: <b>810889</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Total	ND	0.500			

Sample ID: <b>LCS - 14323</b>	SampType: <b>LCS</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49375</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R49375</b>	TestNo: <b>A5310C</b>	Analysis Date: <b>5/6/2024</b>	SeqNo: <b>810890</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Total	3.50	0.500	3.750	0	93.4 90 110

Sample ID: <b>24050095-01DDUP</b>	SampType: <b>DUP</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49375</b>
Client ID: <b>JCB Up 9</b>	Batch ID: <b>R49375</b>	TestNo: <b>A5310C</b>	Analysis Date: <b>5/6/2024</b>	SeqNo: <b>810893</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Total	4.61	0.500			4.526 1.85 15

Sample ID: <b>24050095-02DMS</b>	SampType: <b>MS</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>5/6/2024</b>	RunNo: <b>49375</b>
Client ID: <b>JCB Down 10</b>	Batch ID: <b>R49375</b>	TestNo: <b>A5310C</b>	Analysis Date: <b>5/6/2024</b>	SeqNo: <b>810895</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Total	6.65	0.500	2.500	3.904	110 85 115

<b>Qualifiers:</b>	C1 Sample container temperature is out of limit as specified at testcode	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit
	PL Permit Limit	RL Reporting Detection Limit	

Revision v1



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# Sample Log-In Check List

Client Name: **CAMASLLC** Work Order Number: **24050095** RcptNo: **1**

Logged by:	<b>Tamra Schmedemann</b>	<b>5/2/2024 1:20:00 PM</b>	<i>Tamra Schmedemann</i>
Completed By:	<b>Erin Hernandez</b>	<b>5/3/2024 10:18:00 AM</b>	<i>Erin Hernandez</i>
Reviewed By:	<b>Tamra Schmedemann</b>	<b>5/14/2024 11:03:47 AM</b>	<i>Tamra Schmedemann</i>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present   
 No. Seal Date: Signed By:  
 5. Was an attempt made to cool the samples? Yes  No  NA   
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 7. Sample(s) in proper container(s)? Yes  No   
 8. Sufficient sample volume for indicated test(s)? Yes  No   
 9. Are samples (except VOA and ONG) properly preserved? Yes  No   
 10. Was preservative added to bottles? Yes  No  NA   
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials   
 12. Were any sample containers received broken? Yes  No   
 13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 14. Are matrices correctly identified on Chain of Custody? Yes  No   
 15. Is it clear what analyses were requested? Yes  No   
 16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good				DG

This Chain of Custody is a LEGAL DOCUMENT and must be filled out accurately.

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information	Section D Rush Status (Subject to Scheduling)
Company: <u>Camas LLC</u>	Project Name: <u>Cowar Klarath Metals</u>	Attention: <u>Michelle Brooks</u>	<input checked="" type="checkbox"/> Standard: 10 Business Days
Address: <u>640 G St, Suite C Jacksonville, OR, 97530</u>	Project Number:	Company Name: <u>Camas LLC</u>	<input type="checkbox"/> Priority: 5 Business Days (List x 1.50)
Email: <u>matt@camasllc.com</u>	Report To: <u>Matt Robart</u>	Address: <u>680 G St. Ste. C Jacksonville, OR 97530</u>	<input type="checkbox"/> Express: 3 Business Days (List x 1.75)
Phone: <u>541-231-9392</u>	Copy To:	P.O. #	<input type="checkbox"/> Rush: 2 Business Days (List x 2.00)
Collected By (Print): <u>Matt Robart</u>			<input type="checkbox"/> Rush: 1 Business Day (List x 2.50)
Collected By (Sign): <u>[Signature]</u>			<input type="checkbox"/> Rush: Same Day (List x 3.00)
Email Report <input checked="" type="checkbox"/> Mail Report <input type="checkbox"/> Fax Report <input type="checkbox"/>			Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No

Section E Sample Information					Analysis Requested										NRC Workorder # (Lab Use Only)		
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	2415.1 Hg total	200.7 Al, Fe (total)	200.8 metals total	200.8 metals dis	219.6 Cr (VI)	TOC - WW	HARD	200.7 Al, Fe (diss)	Remarks / Field Data	NRC Sample # Use Only	(Lab	
<u>SCB WP 9</u>	<u>Grab</u>	<u>V</u>	<u>5/2/24</u>	<u>945</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>*200.8 metals - As, Cd, Cr, Cu, Pb, Ni, Ag, Zn</u>	<u>24050095</u>		
<u>SCB Down 10</u>	<u>Grab</u>	<u>W</u>	<u>5/2/24</u>	<u>1045</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					

\*Matrix: DW - Drinking Water WW - Wastewater W - Water S - Soil/Solid SL - Sludge O - Oil WP - Wipe OT - Other

Section F					
Relinquish/Receive	Sign	Print	Date	Time	
Relinquished By:	<u>[Signature]</u>	<u>Dustin Cokely</u>	<u>5/2/2024</u>	<u>13:20</u>	
Received By:					
Relinquished By:					
Received By:					
Relinquished By:					
Received By Laboratory:	<u>[Signature]</u>	<u>Tamra Schmiedemeier</u>	<u>5/6/24</u>	<u>13:20</u>	

Section G Lab Use Only	
Temp: <u>3.5</u>	IR Therm ID:
≤6°C: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Received on Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Number of Bottles Received: <u>12</u>	
pH Checked: <u>N/A</u>	
COC Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Field Blank Included: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Received Via <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input checked="" type="checkbox"/> Hand
Payment: <input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA, M/C <input type="checkbox"/> Check # _____ Amount _____

*Old sticker*



- 
- A Total Alkalinity and Bicarbonate Alkalinity results are to a pH endpoint of 4.5. Carbonate Alkalinity result is to a pH endpoint of 8.3.
- A-LL The total low level alkalinity results are to a pH endpoint of 4.3-4.7 pH units per SM 2320B-2011.
- B Analyte detected in the associated method blank.
- C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
- C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
- CF Results confirmed by re-analysis.
- CU Cleanup performed as specified by method.
- E Estimated value.
- ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
- FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
- HP Sample re-analysis performed outside of method specified holding time.
- HR Sample received outside of method specified holding time.
- HS Sample analyzed for volatile organics contained headspace.
- HT At the client's request, the sample was analyzed outside of method specified holding time.
- H Analysis performed outside of method specified holding time.
- J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
- L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
- MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
- N See Case Narrative on page 2 of report.
- Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS), and/or matrix spikes exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
- R Relative percent difference (RPD) is outside of the accepted recovery limits.
- R1 The numerical difference between the parent sample and the duplicate (DUP) is outside of the accepted recovery limits. Greater than 5 degrees for Flashpoint, or greater than 0.1 pH units for pH.
- R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
- R4 The Relative percent difference (RPD) is not within control limits because the concentration of the sample result is too low to represent proper statistical error.
- R5 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30% because the results are too low to represent proper statistical error. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series. The sample results are not affected.
- R6 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30%. This may indicate a possible matrix interference. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series.
- S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
- S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
- SC Sub-contracted to another laboratory for analysis.
- SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
- \* Value exceeds Maximum Contaminant Level or is outside the acceptable range.<<>>