



13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

April 18, 2024

The Klamath Tribes  
ATTN: Teresa Coley  
5671 Sprague River Road  
Chiloquin, OR 97624  
Teresa.coley@klamathtribes.com

RE: Project KLA-AL2201

Dear Teresa,

On April 4, 2024, Brooks Applied Labs (BAL) received nine (9) water samples. The samples were logged-in for the analyses of methylmercury (MeHg) according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

*Methyl Mercury using MERX*

Water samples were pre-preserved with hydrochloric acid. The preserved samples were distilled and analyzed via EPA Method 1630.

The results were method blank corrected, as described in the calculations section of the relevant BAL SOP(s) and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results. Please feel free to contact us if you have any questions regarding this report.



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Sincerely,

A handwritten signature in black ink that reads "Esther Velasquez".

Esther Velasquez  
Project Manager  
Brooks Applied Labs  
esther@brooksapplied.com



## Report Information

### General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received. This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

### Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

**ISO:** ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

**TNI:** NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

**ISO,TNI:** Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Please see narrative for explanation.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
<b>N</b>	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
<b>Z</b>	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
4040303-01	2404065-01	Freshwater	Trip Blank	04/02/2024	04/04/2024
4040303-02	2404065-02	Freshwater	Sample	04/02/2024	04/04/2024
4040303-03	2404065-03	Freshwater	Sample	04/02/2024	04/04/2024
4040304-01	2404065-04	Freshwater	Field Blank	04/02/2024	04/04/2024
4040304-02	2404065-05	Freshwater	Sample	04/02/2024	04/04/2024
4040304-03	2404065-06	Freshwater	Sample	04/02/2024	04/04/2024
4040304-04	2404065-07	Freshwater	Sample	04/02/2024	04/04/2024
4040304-05	2404065-08	Freshwater	Sample	04/02/2024	04/04/2024
4040304-09	2404065-09	Freshwater	Sample	04/02/2024	04/04/2024

## Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	ISO,TNI	04/08/24	04/09/24	B240763	S240330



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>4040303-01</b> 2404065-01	MeHg	Freshwater	TR	≤ 0.023	U	0.023	0.049	ng/L	B240763	S240330
<b>4040303-02</b> 2404065-02	MeHg	Freshwater	TR	0.047	J	0.023	0.050	ng/L	B240763	S240330
<b>4040303-03</b> 2404065-03	MeHg	Freshwater	TR	≤ 0.023	U	0.023	0.049	ng/L	B240763	S240330
<b>4040304-01</b> 2404065-04	MeHg	Freshwater	TR	≤ 0.023	U	0.023	0.050	ng/L	B240763	S240330
<b>4040304-02</b> 2404065-05	MeHg	Freshwater	TR	0.055		0.023	0.050	ng/L	B240763	S240330
<b>4040304-03</b> 2404065-06	MeHg	Freshwater	TR	0.090		0.023	0.050	ng/L	B240763	S240330
<b>4040304-04</b> 2404065-07	MeHg	Freshwater	TR	0.083		0.023	0.050	ng/L	B240763	S240330
<b>4040304-05</b> 2404065-08	MeHg	Freshwater	TR	0.062		0.023	0.050	ng/L	B240763	S240330
<b>4040304-09</b> 2404065-09	MeHg	Freshwater	TR	0.093		0.023	0.050	ng/L	B240763	S240330



## Accuracy & Precision Summary

Batch: B240763  
 Lab Matrix: Water  
 Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B240763-BS1	Blank Spike, (2414012) MeHg		1.000	1.199	ng/L	120% 67-133	
B240763-MS2	Matrix Spike (2404065-09) MeHg	0.093	1.000	1.345	ng/L	125% 65-135	
B240763-MSD2	Matrix Spike Duplicate (2404065-09) MeHg	0.093	1.000	1.352	ng/L	126% 65-135	0.5% 35

## Method Blanks & Reporting Limits

Batch: B240763  
 Matrix: Water  
 Method: EPA 1630  
 Analyte: MeHg

Sample	Result	Units
B240763-BLK1	0.021	ng/L
B240763-BLK2	0.006	ng/L
B240763-BLK3	0.0004	ng/L
B240763-BLK4	0.001	ng/L
<b>Average:</b>	<b>0.007</b>	
<b>Limit:</b>	<b>0.050</b>	
<b>Standard Deviation:</b>	<b>0.010</b>	
<b>Limit:</b>	<b>0.023</b>	
<b>MDL:</b>	<b>0.023</b>	
<b>MRL:</b>	<b>0.050</b>	



## Sample Containers

<b>Lab ID:</b> 2404065-01 <b>Sample:</b> 4040303-01 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 23-0105	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Trip Blank <b>Preservation</b> 2mL 6N HCl (PP)	<b>P-Lot</b> 2404010	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2404065
<b>Lab ID:</b> 2404065-02 <b>Sample:</b> 4040303-02 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 23-0105	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2mL 6N HCl (PP)	<b>P-Lot</b> 2404010	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2404065
<b>Lab ID:</b> 2404065-03 <b>Sample:</b> 4040303-03 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 23-0105	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2mL 6N HCl (PP)	<b>P-Lot</b> 2404010	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2404065
<b>Lab ID:</b> 2404065-04 <b>Sample:</b> 4040304-01 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 23-0105	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Field Blank <b>Preservation</b> 2mL 6N HCl (PP)	<b>P-Lot</b> 2404010	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2404065
<b>Lab ID:</b> 2404065-05 <b>Sample:</b> 4040304-02 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 23-0027	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2mL 6N HCl (PP)	<b>P-Lot</b> 2335019	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2404065
<b>Lab ID:</b> 2404065-06 <b>Sample:</b> 4040304-03 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 23-0105	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2mL 6N HCl (PP)	<b>P-Lot</b> 2404010	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2404065

**Project ID:** KLA-AL2201  
**PM:** Esther Velasquez



BAL Report 2404065  
**Client PM:** Teresa Coley  
**Client Project:** KLA-AL2201

## Sample Containers

<b>Lab ID:</b> 2404065-07 <b>Sample:</b> 4040304-04 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b>	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b>
A Bottle FLPE MeHg	250 mL	23-0105	2mL 6N HCl (PP)	2404010	<2 Cooler - 2404065
<b>Lab ID:</b> 2404065-08 <b>Sample:</b> 4040304-05 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b>	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b>
A Bottle FLPE MeHg	250 mL	23-0105	2mL 6N HCl (PP)	2404010	<2 Cooler - 2404065
<b>Lab ID:</b> 2404065-09 <b>Sample:</b> 4040304-05 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b>	<b>Collected:</b> 04/02/2024 <b>Received:</b> 04/04/2024 <b>pH</b> <b>Ship. Cont.</b>
A Bottle FLPE MeHg	250 mL	23-0105	2mL 6N HCl (PP)	2404010	<2 Cooler - 2404065

## Shipping Containers

### Cooler - 2404065

**Received:** April 4, 2024 10:15  
**Tracking No:** 1Z F72 57F 22 1000 866 3 via UP  
**Coolant Type:** Ice  
**Temperature:** 3.8 °C

**Description:** Cooler  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** R-IR-3

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes





# Chain-of-Custody Form

Ship samples to:  
 13751 Lake City Way NE, Suite 108  
 Seattle, WA 98125

Received by: ERL For BAL use only Date: 4/4/24  
 Work Order ID: \_\_\_\_\_ Time: 10:15  
 Project ID: \_\_\_\_\_

Client: Sprague River Water Quality Lab  
 Contact: Teresa Coley  
 Client Project ID:  
 Samples Collected By: RES Field Teams

PO Number:  
 Phone: (541) 827-5231  
 Email: [teresa.coley@klamathtribes.com](mailto:teresa.coley@klamathtribes.com)

Mailing Address:  
 Email Receipt Confirmation? Yes  
 BAL PM:

Requested TAT (business days)  <input checked="" type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>		Collection		Client Sample Info				BAL Analyses Required							Comments	
		Date	Time	Matrix Type	Number of Containers	Field Filtered?	Preservation Type	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify)	Se Species (specify)	Filtration	Other (specify here)	Other (specify here)	Specify Here
1	4040303-01	4/2/24	07:35	Freshwater	1	No	HCl		✓							
2	4040303-02	4/2/24	09:08	Freshwater	1	No	HCl		✓							
3	4040303-03	4/2/24	10:13	Freshwater	1	No	HCl		✓							
4	4040304-01	4/2/24	08:00	Freshwater	1	No	HCl		✓							
5	4040304-02	4/2/24	08:10	Freshwater	1	No	HCl		✓							
6	4040304-03	4/2/24	10:10	Freshwater	1	No	HCl		✓							
7	4040304-04	4/2/24	12:01	Freshwater	1	No	HCl		✓							
8	4040304-05	4/2/24	12:58	Freshwater	1	No	HCl		✓							
9	4040304-09	4/2/24	10:17	Freshwater	1	No	HCl		✓							
10	Trip Blank (specify)															

Relinquished By: <u>Teresa Coley</u>	Date: <u>4-3-24</u>	Time: <u>13:41</u>	Relinquished By:	Date:	Time:
Received By: <u>ERL/BAL</u>	Date: <u>4/4/24</u>	Time: <u>10:15</u>	Total Number of Packages:		