



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

December 2, 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 November 7, 2024, Brooks Applied Labs (BAL) received eight (8) 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 McCaughan".

Esther McCaughan
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

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

Definition of Data Qualifiers

| | |
|------------|---|
| E | An estimated value due to the presence of interferences. A full explanation is presented in the narrative. |
| H | Holding time and/or preservation requirements not met. Please see narrative for explanation. |
| J | Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate. |
| J-1 | Estimated value. A full explanation is presented in the narrative. |
| M | Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation. |
| N | Spike recovery was not within acceptance criteria. Please see narrative for explanation. |
| R | Rejected, unusable value. A full explanation is presented in the narrative. |
| U | Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL. |
| X | Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated. |
| Z | 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 |
|------------|------------|---------------|------------|------------|------------|
| 4110603-01 | 2411096-01 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110603-02 | 2411096-02 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110603-03 | 2411096-03 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110604-01 | 2411096-04 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110604-02 | 2411096-05 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110604-03 | 2411096-06 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110604-04 | 2411096-07 | Freshwater | Sample | 11/05/2024 | 11/07/2024 |
| 4110604-06 | 2411096-08 | Freshwater | Trip Blank | 11/05/2024 | 11/07/2024 |

Batch Summary

| Analyte | Lab Matrix | Method | Accred. | Prepared | Analyzed | Batch | Sequence |
|---------|------------|----------|---------|----------|----------|---------|----------|
| MeHg | Water | EPA 1630 | ISO,TNI | 11/25/24 | 11/26/24 | B242738 | S241156 |



Sample Results

| Sample | Analyte | Report Matrix | Basis | Result | Qualifier | MDL | MRL | Unit | Batch | Sequence |
|---------------------------------|---------|---------------|-------|--------|-----------|-------|-------|------|---------|----------|
| 4110603-01 2411096-01 | MeHg | Freshwater | TR | 0.085 | | 0.023 | 0.051 | ng/L | B242738 | S241156 |
| 4110603-02 2411096-02 | MeHg | Freshwater | TR | 0.090 | | 0.022 | 0.048 | ng/L | B242738 | S241156 |
| 4110603-03 2411096-03 | MeHg | Freshwater | TR | 0.123 | | 0.023 | 0.049 | ng/L | B242738 | S241156 |
| 4110604-01 2411096-04 | MeHg | Freshwater | TR | 0.121 | | 0.024 | 0.052 | ng/L | B242738 | S241156 |
| 4110604-02 2411096-05 | MeHg | Freshwater | TR | 0.121 | | 0.024 | 0.052 | ng/L | B242738 | S241156 |
| 4110604-03 2411096-06 | MeHg | Freshwater | TR | 0.166 | | 0.023 | 0.050 | ng/L | B242738 | S241156 |
| 4110604-04 2411096-07 | MeHg | Freshwater | TR | 0.079 | | 0.023 | 0.050 | ng/L | B242738 | S241156 |
| 4110604-06 2411096-08 | MeHg | Freshwater | TR | 0.040 | J | 0.023 | 0.050 | ng/L | B242738 | S241156 |



Accuracy & Precision Summary

Batch: B242738
 Lab Matrix: Water
 Method: EPA 1630

| Sample | Analyte | Native | Spike | Result | Units | REC & Limits | RPD & Limits |
|--------------|---|--------|-------|--------|-------|--------------|--------------|
| B242738-BS1 | Blank Spike, (2445037) MeHg | | 1.000 | 0.987 | ng/L | 99% 67-133 | |
| B242738-MS2 | Matrix Spike (2411096-02) MeHg | 0.090 | 1.000 | 1.103 | ng/L | 101% 65-135 | |
| B242738-MSD2 | Matrix Spike Duplicate (2411096-02) MeHg | 0.090 | 1.000 | 1.072 | ng/L | 98% 65-135 | 3% 35 |

Method Blanks & Reporting Limits

Batch: B242738
 Matrix: Water
 Method: EPA 1630
 Analyte: MeHg

| Sample | Result | Units |
|----------------------------|--------------|-------|
| B242738-BLK1 | 0.003 | ng/L |
| B242738-BLK2 | 0.001 | ng/L |
| B242738-BLK3 | 0.001 | ng/L |
| B242738-BLK4 | 0.001 | ng/L |
| Average: | 0.002 | |
| Limit: | 0.051 | |
| Standard Deviation: | 0.001 | |
| Limit: | 0.023 | |
| MDL: | 0.023 | |
| MRL: | 0.051 | |



Sample Containers

| | | | | | |
|--|-----------------------|-----------------------|---|-------------------------|---|
| Lab ID: 2411096-01 Sample: 4110603-01 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH Ship. Cont. <2 Cooler - 2411096 |
| Lab ID: 2411096-02 Sample: 4110603-02 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH Ship. Cont. <2 Cooler - 2411096 |
| Lab ID: 2411096-03 Sample: 4110603-03 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH Ship. Cont. <2 Cooler - 2411096 |
| Lab ID: 2411096-04 Sample: 4110604-01 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH Ship. Cont. <2 Cooler - 2411096 |
| Lab ID: 2411096-05 Sample: 4110604-02 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH Ship. Cont. <2 Cooler - 2411096 |
| Lab ID: 2411096-06 Sample: 4110604-03 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH Ship. Cont. <2 Cooler - 2411096 |

Project ID: KLA-AL2201
PM: Esther McCaughan



BAL Report 2411096
Client PM: Teresa Coley
Client Project: KLA-AL2201

Sample Containers

| | | | | | |
|--|-----------------------|-----------------------|---|-------------------------|---|
| Lab ID: 2411096-07 Sample: 4110604-04 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Sample Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH <2 Ship. Cont. Cooler - 2411096 |
| Lab ID: 2411096-08 Sample: 4110604-06 Des Container A Bottle FLPE MeHg | Size 250 mL | Lot 24-0015 | Report Matrix: Freshwater Sample Type: Trip Blank Preservation 2 mL 6N HCl (Pre-preserved) | P-Lot 2431018 | Collected: 11/05/2024 Received: 11/07/2024 pH <2 Ship. Cont. Cooler - 2411096 |

Shipping Containers

Cooler - 2411096

Received: November 7, 2024 9:37
Tracking No: 1Z F72 57F 22 1000 887 8 via UP
Coolant Type: Ice
Temperature: 1.9 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: SCTH-1

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: GHS For BAL use only Date: 11/7/24
 Work Order ID: _____ Time: 9:37
 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

Mailing Address:
 Email Receipt Confirmation? Yes
 BAL PM:

| Requested TAT (business days) | | 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) | |
| <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> | | Specify Here | | | | | | | | | | | | | | | |
| Sample ID | | | | | | | | | | | | | | | | | |
| 1 | 4110603-01 | 11/5/24 | 11:10 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 2 | 4110603-02 | 11/5/24 | 10:42 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 3 | 4110603-03 | 11/5/24 | 09:48 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 4 | 4110604-01 | 11/5/24 | 07:50 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 5 | 4110604-02 | 11/5/24 | 09:50 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 6 | 4110604-03 | 11/5/24 | 11:28 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 7 | 4110604-04 | 11/5/24 | 12:23 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 8 | 4110604-06 | 11/5/24 | 07:10 | Freshwater | 1 | No | HCl | | ✓ | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| Trip Blank (specify) | | | | | | | | | | | | | | | | | |
| Relinquished By: <u>Don A. Harris</u> | | Date: <u>11-6-24</u> | | Time: <u>1408</u> | | Relinquished By: | | | | | Date: | | Time: | | | | |
| Received By: | | Date: | | Time: | | Total Number of Packages: <u>1</u> | | | | | | | | | | | |