



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

October 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 September 5, 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 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
4090403-01	2409065-01	Freshwater	Sample	09/03/2024	09/05/2024
4090403-02	2409065-02	Freshwater	Sample	09/03/2024	09/05/2024
4090403-03	2409065-03	Freshwater	Sample	09/03/2024	09/05/2024
4090403-04	2409065-04	Freshwater	Sample	09/03/2024	09/05/2024
4090403-05	2409065-05	Freshwater	Sample	09/03/2024	09/05/2024
4090404-01	2409065-06	Freshwater	Sample	09/03/2024	09/05/2024
4090404-02	2409065-07	Freshwater	Sample	09/03/2024	09/05/2024
4090404-03	2409065-08	Freshwater	Sample	09/03/2024	09/05/2024
4090404-04	2409065-09	Freshwater	Sample	09/03/2024	09/05/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	ISO,TNI	09/30/24	10/01/24	B242252	S240952



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
4090403-01 2409065-01	MeHg	Freshwater	TR	0.051		0.022	0.049	ng/L	B242252	S240952
4090403-02 2409065-02	MeHg	Freshwater	TR	0.154		0.022	0.049	ng/L	B242252	S240952
4090403-03 2409065-03	MeHg	Freshwater	TR	0.156		0.022	0.049	ng/L	B242252	S240952
4090403-04 2409065-04	MeHg	Freshwater	TR	0.160		0.023	0.050	ng/L	B242252	S240952
4090403-05 2409065-05	MeHg	Freshwater	TR	≤ 0.023	U	0.023	0.050	ng/L	B242252	S240952
4090404-01 2409065-06	MeHg	Freshwater	TR	0.579		0.022	0.049	ng/L	B242252	S240952
4090404-02 2409065-07	MeHg	Freshwater	TR	0.536		0.023	0.050	ng/L	B242252	S240952
4090404-03 2409065-08	MeHg	Freshwater	TR	0.276		0.023	0.049	ng/L	B242252	S240952
4090404-04 2409065-09	MeHg	Freshwater	TR	0.212		0.022	0.049	ng/L	B242252	S240952



Accuracy & Precision Summary

Batch: B242252
 Lab Matrix: Water
 Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242252-BS1	Blank Spike, (2436018) MeHg		1.000	0.956	ng/L	96% 67-133	
B242252-MS1	Matrix Spike (2409065-04) MeHg	0.160	1.000	1.071	ng/L	91% 65-135	
B242252-MSD1	Matrix Spike Duplicate (2409065-04) MeHg	0.160	1.000	1.032	ng/L	87% 65-135	4% 35

Method Blanks & Reporting Limits

Batch: B242252
 Matrix: Water
 Method: EPA 1630
 Analyte: MeHg

Sample	Result	Units
B242252-BLK1	0.005	ng/L
B242252-BLK2	0.001	ng/L
B242252-BLK3	0.001	ng/L
B242252-BLK4	0.008	ng/L
Average: 0.004		Standard Deviation: 0.003
Limit: 0.049		Limit: 0.023
		MDL: 0.023
		MRL: 0.049



Sample Containers

Lab ID: 2409065-01 Sample: 4090403-01 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2431018	Collected: 09/03/2024 Received: 09/05/2024 pH Ship. Cont. <2 Cooler - 2409065
Lab ID: 2409065-02 Sample: 4090403-02 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2431018	Collected: 09/03/2024 Received: 09/05/2024 pH Ship. Cont. <2 Cooler - 2409065
Lab ID: 2409065-03 Sample: 4090403-03 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2431018	Collected: 09/03/2024 Received: 09/05/2024 pH Ship. Cont. <2 Cooler - 2409065
Lab ID: 2409065-04 Sample: 4090403-04 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2431018	Collected: 09/03/2024 Received: 09/05/2024 pH Ship. Cont. <2 Cooler - 2409065
Lab ID: 2409065-05 Sample: 4090403-05 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2431018	Collected: 09/03/2024 Received: 09/05/2024 pH Ship. Cont. <2 Cooler - 2409065
Lab ID: 2409065-06 Sample: 4090404-01 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2421005	Collected: 09/03/2024 Received: 09/05/2024 pH Ship. Cont. <2 Cooler - 2409065

Project ID: KLA-AL2201
PM: Esther McCaughan



BAL Report 2409065
Client PM: Teresa Coley
Client Project: KLA-AL2201

Sample Containers

Lab ID: 2409065-07 Sample: 4090404-02 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2421005	Collected: 09/03/2024 Received: 09/05/2024 pH <2 Ship. Cont. Cooler - 2409065
Lab ID: 2409065-08 Sample: 4090404-03 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2421005	Collected: 09/03/2024 Received: 09/05/2024 pH <2 Ship. Cont. Cooler - 2409065
Lab ID: 2409065-09 Sample: 4090404-04 Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Report Matrix: Freshwater Sample Type: Sample Preservation 2mL 6N HCL (PP)	P-Lot 2421005	Collected: 09/03/2024 Received: 09/05/2024 pH <2 Ship. Cont. Cooler - 2409065

Shipping Containers

Cooler - 2409065

Received: September 5, 2024 9:55
Tracking No: 1Z F72 57F 22 1000 881 4 via UP
Coolant Type: Ice
Temperature: 11.0 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-6

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: EO For BAL use only Date: 9/5/24
 Work Order ID: _____ Time: 9:55
 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>	Sample ID															
1	4090403-01	9/3/24	08:30	Freshwater	1	No	HCl		✓							
2	4090403-02	9/3/24	11:59	Freshwater	1	No	HCl		✓							
3	4090403-03	9/3/24	10:36	Freshwater	1	No	HCl		✓							
4	4090403-04	9/3/24	10:36	Freshwater	1	No	HCl		✓							
5	4090403-05	9/3/24	11:00	Freshwater	1	No	HCl		✓							
6	4090404-01	9/3/24	08:32	Freshwater	1	No	HCl		✓							
7	4090404-02	9/3/24	10:24	Freshwater	1	No	HCl		✓							
8	4090404-03	9/3/24	12:22	Freshwater	1	No	HCl		✓							
9	4090404-04	9/3/24	13:23	Freshwater	1	No	HCl		✓							
10	Trip Blank (specify)															
Relinquished By: <u>Teresa Coley</u>		Date: <u>9-4-24</u>		Time: <u>14:04</u>		Relinquished By:					Date:		Time:			
Received By:		Date:		Time:		Total Number of Packages:										

Print