November 5, 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 October 3, 2024, Brooks Applied Labs (BAL) received three (3) 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.

B242491

The method blank (BLK) B242491-BLK1 had a concentration above the acceptance limit. The result for sample 2410067-01 was less than the MRL and no further action was required. The rest of the samples had results above the MRL and were reanalyzed for confirmation. It was determined that the samples were not affected by the failing blank, and all results were reported from this batch.

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.

Sincerely,

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

Vathar.



BAL Report 2410067 Client PM: Teresa Colev Client Project: KLA-AL2201

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

- An estimated value due to the presence of interferences. A full explanation is presented in the narrative. Ε
- Н Holding time and/or preservation requirements not met. Please see narrative for explanation.
- 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.

 Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation. М
- Spike recovery was not within acceptance criteria. Please see narrative for explanation. Ν
- 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.
- Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Χ
- Holding time and/or preservation requirements not established for this method; however, BAL recommendations Z for holding time were not followed. Please see narrative for explanation.



BAL Report 2410067 Client PM: Teresa Coley Client Project: KLA-AL2201

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
4100204-01	2410067-01	Freshwater	Trip Blank	10/01/2024	10/03/2024
4100204-02	2410067-02	Freshwater	Sample	10/01/2024	10/03/2024
4100204-03	2410067-03	Freshwater	Sample	10/01/2024	10/03/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	ISO,TNI	10/23/24	10/24/24	B242491	S241041

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifie	r MDL	MRL	Unit	Batch	Sequence
4100204-01 2410067-01	MeHg	Freshwater	TR	0.026	J	0.023	0.050	ng/L	B242491	S241041
4100204-02 2410067-02	MeHg	Freshwater	TR	0.147		0.023	0.051	ng/L	B242491	S241041
4100204-03 2410067-03	MeHg	Freshwater	TR	0.145		0.023	0.049	ng/L	B242491	S241041



BAL Report 2410067 Client PM: Teresa Coley Client Project: KLA-AL2201

Accuracy & Precision Summary

Batch: B242491 Lab Matrix: Water Method: EPA 1630

Sample B242491-BS1	7	Native	Spike	Result	Units	REC & Limits	RPD & Limits
	Blank Spike, (2441042 MeHg	,	1.000	0.994	ng/L	99% 67-133	
B242491-MS1	Matrix Spike (2404216- MeHg	02) 0.609	1.000	1.718	ng/L	111% 65-135	
B242491-MSD1	Matrix Spike Duplicate MeHg	(2404216 0.609	-02) 1.000	1.661	ng/L	105% 65-135	3% 35

Method Blanks & Reporting Limits

Batch: B242491 Matrix: Water Method: EPA 1630 Analyte: MeHg

 Sample
 Result
 Units

 B242491-BLK2
 0.014
 ng/L

 B242491-BLK3
 0.006
 ng/L

 B242491-BLK4
 0.002
 ng/L

 Average: 0.007
 Standard Deviation: 0.006
 MDL: 0.023

 Limit: 0.050
 Limit: 0.023
 MRL: 0.050



BAL Report 2410067 Client PM: Teresa Coley Client Project: KLA-AL2201

Sample Containers

Lab ID: 2410067-01 Sample: 4100204-01 Des Container A Bottle FLPE MeHg	Size 250mL	eport Matrix: Freshwater ample Type: Trip Blank Preservation 2mL 6N HCI (BAL)	P-Lot 2431018	Collected: 10/01/2024 Received: 10/03/2024 pH Ship. Cont. <2 Styrofoam Cooler - 2410067
Lab ID: 2410067-02 Sample: 4100204-02 Des Container A Bottle FLPE MeHg	Size 250mL	eport Matrix: Freshwater ample Type: Sample Preservation 2mL 6N HCI (BAL)	P-Lot 2431018	Collected: 10/01/2024 Received: 10/03/2024 pH Ship. Cont. <2 Styrofoam Cooler - 2410067
Lab ID: 2410067-03 Sample: 4100204-03 Des Container A Bottle FLPE MeHg	Size 250mL	eport Matrix: Freshwater ample Type: Sample Preservation 2mL 6N HCI (BAL)	P-Lot 2431018	Collected: 10/01/2024 Received: 10/03/2024 pH Ship. Cont. <2 Styrofoam Cooler - 2410067

Shipping Containers

Styrofoam Cooler - 2410067

Received: October 3, 2024 10:07 **Tracking No:** 17 F72 57F 22 1000 883 2 via UF

Tracking No: 1Z F72 57F 22 1000 883 2 via UP Damaged in transit? No

Coolant Type: Ice Temperature: 4.6 °C Description: Styrofoam 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

Client:	Sprague	River	Water	Quality	Lab
Olicit.	Opiaque	LVIACI	AAGICI	Quality	

Contact: Teresa Coley

Client Project ID:

Samples Collected By: RES Field Teams

PO	N	иm	ber
	1 V	OH I	

Phone: (541) 827-5231

Email: teresa.coley@klamathtribes.com

Work Order ID: Project ID:

For BAL use only

Mailing Address:

Received by:

Email Receipt Confirmation? Yes

BAL PM:

Requested TAT	Collecti	on	Cliei	nt Sample	e Info				BAL	. Analys	es Requ	ired			Comments
(business days)							_								
☑ 20 (standard) □ 15*			I).			ре	1631			As Species (specify)	(specify)		re)	here)	
☐ 15* ☐ 10*					ر م	Preservation Type	PA,		ICP-MS Metals (specify)	ds)	ds)		Other (specify here)	y he	
☐ 10* ☐ 5* ☐ Other			/be	of Srs	ere	tio	ш	က်ဝ	Me	es	<u>es</u>		ecif	(specify	
Other			Matrix Type	Number of Containers	Field Filtered?	N	Total Hg,	Methyl Hg, EPA 1630	MS (yj)	bec	Species	Filtration	ds)	ds)	
*Surcharges may apply to expedited TATs	Date	Time	atri	ont	eld	rese	otal	leth PA)P-I	S S	Se S	iltra	ther	Other	
Sample ID				ZO			F		<u>⊃</u> ⊛	<	S	Lii.	0	0	Specify Here
1 4100204-01	10/1/24	08:35	Freshwater	1	No	HCI		1							
2 4100204-02	10/1/24	11:38	Freshwater	1	No	HCI		1							
3 4100204-03	10/1/24	10:10	Freshwater	1	No	HCI		✓							
4															
5							-								
6							-	-							
7							-								
8 9					-		-								
10															
Trip Blank (specify)															
Relinquished By Tessay Cally	Date	e: 10 -2	2-24 Time:	14-25	R	elinqui	shed E	By:				Di	ate:		Time:
Received By:	Date		Time:		Т	otal Nu	mber	of Pac	kages:			i. T ăi			

Page 1of 1	List Hazardous Contaminants:		samples@brooksapplied.com brooksapplied.co
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October 31, 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 October 10, 2024, Brooks Applied Labs (BAL) received five (5) 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.

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Sincerely,

Esther McCaughan Project Manager

Brooks Applied Labs

esther@brooksapplied.com



BAL Report 2410197 Client PM: Teresa Colev Client Project: KLA-AL2201

Report Information

General Disclaimers

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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
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- Spike recovery was not within acceptance criteria. Please see narrative for explanation. Ν
- R Rejected, unusable value. A full explanation is presented in the narrative.
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BAL Report 2410197 Client PM: Teresa Coley Client Project: KLA-AL2201

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
4100903 - 01	2410197-01	Freshwater	Sample	10/08/2024	10/10/2024
4100903 - 02	2410197-02	Freshwater	Sample	10/08/2024	10/10/2024
4100903 - 03	2410197-03	Freshwater	Sample	10/08/2024	10/10/2024
4100903 - 04	2410197-04	Freshwater	Sample	10/08/2024	10/10/2024
4100903 - 06	2410197-05	Freshwater	Sample	10/09/2024	10/10/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	ISO,TNI	10/28/24	10/29/24	B242578	S241055



BAL Report 2410197 Client PM: Teresa Coley Client Project: KLA-AL2201

Sample Results

Sample	Analyte	Report Matrix	Basis	Result C	Qualifier MDL	MRL	Unit	Batch	Sequence
4100903 - 01 2410197-01	MeHg	Freshwater	TR	0.210	0.023	0.050	ng/L	B242578	S241055
4100903 - 02 2410197-02	MeHg	Freshwater	TR	0.203	0.023	0.050	ng/L	B242578	S241055
4100903 - 03 2410197-03	MeHg	Freshwater	TR	0.173	0.023	0.049	ng/L	B242578	S241055
4100903 - 04 2410197-04	MeHg	Freshwater	TR	0.121	0.023	0.050	ng/L	B242578	S241055
4100903 - 06 2410197-05	MeHg	Freshwater	TR	0.043	J 0.023	0.051	ng/L	B242578	S241055



BAL Report 2410197 Client PM: Teresa Coley Client Project: KLA-AL2201

Accuracy & Precision Summary

Batch: B242578 Lab Matrix: Water Method: EPA 1630

Sample B242578-BS1	Analyte Blank Spike, (2441042	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242370-B31	MeHg	•)	1.000	1.176	ng/L	118% 67-133	
B242578-MS1	Matrix Spike (2410197- MeHg	-03) 0.173	1.000	1.452	ng/L	128% 65-135	
B242578-MSD1	Matrix Spike Duplicate MeHg	(2410197 0.173	'-03) 1.000	1.446	ng/L	127% 65-135	0.4% 35

Method Blanks & Reporting Limits

Batch: B242578 Matrix: Water Method: EPA 1630 Analyte: MeHg

Sample	Result	Units
B242578-BLK1	0.005	ng/L
B242578-BLK2	0.006	ng/L
B242578-BLK3	0.004	ng/L
B242578-BLK4	0.005	na/l

 Average: 0.005
 Standard Deviation: 0.001
 MDL: 0.023

 Limit: 0.050
 Limit: 0.023
 MRL: 0.050



BAL Report 2410197 Client PM: Teresa Coley Client Project: KLA-AL2201

Sample Containers

Lab ID : 2410197-01 Sample : 4100903 - 01		Sa	port Matrix: Freshwater mple Type: Sample	Collected: 10/08/2024 Received: 10/10/2024			
Des Container A Bottle FLPE MeHg	Size 250 mL	Lot 24-0015	Preservation 2 mL 6N HCl (PP)	P-Lot 2431018	pH Ship. Cont. <2 Cooler - 2410197		
Lab ID: 2410197-02 Sample: 4100903 - 02 Des Container A Bottle FLPE MeHg	Size 250 mL		port Matrix: Freshwater mple Type: Sample Preservation 2 mL 6N HCI (PP)	P-Lot 2431018	Collected: 10/08/2024 Received: 10/10/2024 pH Ship. Cont. <2 Cooler - 2410197		
Lab ID: 2410197-03 Sample: 4100903 - 03 Des Container A Bottle FLPE MeHg	Size 250 mL		port Matrix: Freshwater mple Type: Sample Preservation 2 mL 6N HCI (PP)	P-Lot 2431018	Collected: 10/08/2024 Received: 10/10/2024 pH Ship. Cont. <2 Cooler - 2410197		
Lab ID: 2410197-04 Sample: 4100903 - 04 Des Container A Bottle FLPE MeHg	Size 250 mL		port Matrix: Freshwater mple Type: Sample Preservation 2 mL 6N HCI (PP)	P-Lot 2431018	Collected: 10/08/2024 Received: 10/10/2024 pH Ship. Cont. <2 Cooler - 2410197		
Lab ID: 2410197-05 Sample: 4100903 - 06 Des Container A Bottle FLPE MeHg	Size 250 mL		port Matrix: Freshwater mple Type: Sample Preservation 2 mL 6N HCI (PP)	P-Lot 2431018	Collected: 10/09/2024 Received: 10/10/2024 pH Ship. Cont. <2 Cooler - 2410197		



BAL Report 2410197 Client PM: Teresa Coley Client Project: KLA-AL2201

Shipping Containers

Cooler - 2410197

Received: October 10, 2024 9:45

Tracking No: 1Z F72 57F 22 1000 886 9 via UP Damaged in transit? No

Coolant Type: Ice **Temperature:** 6.7 °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

BAL Report 2410197



Chain-of-Custody Form

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

Client: Sprague River Water Quality Lab

Contact: Teresa Coley

Client Project ID:

Samples Collected By: Karuk RES field team

PO Number:

Phone: 541-827-5231

Email: teresa.coley@klamathtribes.com

Received by:	ly Date:	10/10/24
Work Order ID:	Time:	9:45
Project ID:		
Mailing Address:		
Email Receipt Confirmation? Yes		
BAL PM:		

Red	uested TAT	Collect	ion	Client Sample Info				BAL Analyses Required Comments				BAL Analyses Required					ents	
(bus	iness days) 20 (standard) 5* 10* 5* Other	Date	Time	Matrix Type	Number of Containers	Field Filtered?	Preservation Type	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	Species (specify)	Species (specify)	Filtration	Other (specify here)	Other (specify here)			
	Sample ID	Ω°	į	ž	žΰ	iĔ	٩	٢	ΣÜ	S (S	As	Se	正	ŏ	ō	Specify	Here	
1	4100903 - 01	10/8/24	0742	Freshwater	1	No	HCI		~									١,
2	4100903 - 02	10/8/24	0945	Freshwater	1	No	HCI		~							preservative	lacked in	pos
3	4100903 - 03	10/8/24	1129	Freshwater	1	No	HCI		~									1
4	4106909 - 04	10/8/24	1221	Freshwater	1	No	HCI		~									
5	4100903-06	10/9/24	1018	Freshwater	1	No	HCI		V									
6 7																		
8																		
9																		
10																		
	Trip Blank (specify)															1,		1
Re	inquished By: pur A. Kar	N/4 Dat	e:/ b-9-	zy Time	1242	. F	Relinqui	inquished By: Date: Time:										
Re	ceived By:	Dat	e:	Time		1	Total Number of Packages:											
Pag	Page 1 of 1 List Hazardous Contaminants: samples@brooksapplied.com brooksapplied.com																	

age 1 of 1 List Hazardous	Contaminants:	samples@brooksapplied.com brooksapplied.co
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