IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER: 1759944 **PAGE 1**

REPORT DATE: 08/29/25

DATE SAMPLED: 08/20/25 **DATE RECEIVED:** 08/21/25

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM MLIRD

CASE NARRATIVE

Thirty one water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
TS-1 (grab sample)	0.005	<0.001	<0.010				
TS-2 (grab sample)	0.026	0.015	1.88				
TS-3 (grab sample)	0.027		1.54				
TS-4a (.5m below surface)	0.023		0.291				
TS-4d (.5m from bottom)	0.020						
TS-5a (.5m below surface)	0.021		0.186			14	2.8
TS-5b (2m below surface)	0.020						
TS-5d (.5 from bottom)	0.022						
TS-6a (.5 below surface)	0.014	<0.001	0.010	125		8.2	1.5
TS-6b (2m below surface)	0.014						
TS-6c (5m below surface)	0.015						
TS-6d (.5m from bottom)	0.112	0.089					
TS-7a (.5m below surface)	0.013		<0010			4.3	1.1
TS-7b (2m below surface)	0.011						
TS-7d (.5m from bottom)	0.011						
TS-8a (.5m below surface)	0.032		<0.010			25	4.8
TS-8d (.5m from bottom)	0.036						
TS-9 (grab sample)	0.018	0.005	0.169	124	15.7		
TS-11a (.5 below surface)	0.025	0.002	0.012	125		13	3.3
TS-11b (2m below surface)	0.022						
TS-11c (5m below surface)	0.040						
TS-11d (.5m from bottom)	0.040						
TS-12a (.5m below surface)	0.031		1.55			17	4.2
TS-12d (.5m from bottom)	0.028						
TS-14 (grab sample)	0.095	0.083	1.48	143	16.9		
TS-15a (.5m below surface)	0.026		0.036			14	2.3
TS-15b (2m below surface)	0.023						
TS-15c (5m below surface)	0.030						
TS-15d (.5m from bottom)	0.056						
TS-18	0.058	0.022	0.727	155	15.0		
TS-17	0.042		<0.010				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1 (grab sample)	162	
TS-2 (grab sample)		1.96
TS-6a (.5 below surface)		0.274
TS-9 (grab sample)	331	
TS-11a (.5 below surface)		0.339
TS-14 (grab sample)	381	1.52
TS-18	379	0.698

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QA/QC DATA

QC PARAMETER	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
METHOD	SM20 4500PF	SM20 4500PF	SM204500N03F	SM20 2320B	EPA 200.7	SM2010200H	SM2010200H
DATE ANALYZED	08/26/25	08/22/25	08/22/25	08/22/25	08/26/25	08/27/25	08/27/25
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-17	TS-18	TS-17	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.042	0.022	<0.010	99.8	247	1.1	1.2
DUPLICATE	0.042	0.022	<0.010	100	248	1.2	1.0
RPD	1.08%	0.90%	NC	0.56%	0.15%	15.38%	16.39%
SPIKE SAMPLE							
SAMPLE ID	TS-17	TS-18	TS-17		BATCH		
ORIGINAL	0.042	0.022	<0.010		247		
SPIKED SAMPLE	0.083	0.042	0.219		259		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	83.62%	97.61%	109.29%	NA	112.18%	NA	NA
QC CHECK							
FOUND	0.095	0.042	0.423	94.8	10.9		
TRUE	0.094	0.039	0.428	100	10.0		
% RECOVERY	101.06%	107.69%	98.84%	94.80%	109.00%	NA	NA
BLANK	<0.002	<0.010	<0.010	NA	<0.500	NA	NA

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski

Damien Gadomski
Project Manager