



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	1757989	PAGE 1
REPORT DATE:	07/01/25	
DATE SAMPLED:	06/11/25	DATE RECEIVED: 06/12/25
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Thirty 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)	0.006	<0.001	0.004				
TS-2 (grab sample)	0.055	0.009	2.40				
TS-3 (grab sample)	0.032		1.43				
TS-4a (.5m below surface)	0.030		0.616				
TS-4d (.5m from bottom)	0.042						
TS-5a (.5m below surface)	0.016		0.180			3.2	2.4
TS-5b (2m below surface)	0.017						
TS-5d (.5m from bottom)	0.022						
TS-6a (.5m below surface)	0.011	<0.001	<0.010	103		1.9	0.2
TS-6b (2m below surface)	0.010						
TS-6c (5m below surface)	0.017						
TS-6d (.5m from bottom)	0.017	<0.001					
TS-7a (.5m below surface)	0.012		<0.010			2.7	0.7
TS-7b (2m below surface)	0.013						
TS-7d (.5m from bottom)	0.020						
TS-8a (.5m below surface)	0.045		<0.010			13	5.6
TS-8d (.5m from bottom)	0.048						
TS-9 (grab sample)	0.046	<0.001	0.048	116	13.5		
TS-11a (.5m below surface)	0.021	<0.001	<0.010	106		5.6	2.4
TS-11b (2m below surface)	0.018						
TS-11c (5m below surface)	0.045						
TS-11d (.5m from bottom)	0.069						
TS-12a (.5 below surface)	0.024		0.127			12	5.4
TS-12d (.5m from bottom)	0.038						
TS-14 (grab sample)	0.211	0.121	1.23	145	18.2		
TS-15a (.5m below surface)	0.018		0.022			5.3	2.3
TS-15b (2m below surface)	0.019						
TS-15c (5m below surface)	0.024						
TS-15d (.5m from bottom)	0.040						
TS-17 (grab sample)	0.065		0.012				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1 (grab sample)	158	
TS-2 (grab sample)		3.39
TS-6a (.5m below surface)		0.353
TS-9 (grab sample)	273	
TS-11a (.5m below surface)		0.431
TS-14 (grab sample)	346	1.93



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	1757989	PAGE 2
REPORT DATE:	07/01/25	
DATE SAMPLED:	06/11/25	DATE RECEIVED: 06/12/25
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

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	06/16/25	06/13/25	06/13/25	06/17/25	06/18/25	06/19/25	06/19/25
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-17 (grab sample)	TS-1 (grab sample)	TS-17 (grab sample)	BATCH	BATCH	TS-15a (.5m below surface)	TS-15a (.5m below surface)
ORIGINAL	0.065	<0.001	0.012	58.0	1.41	5.3	2.3
DUPLICATE	0.064	<0.001	0.013	57.8	1.39	5.3	2.1
RPD	1.66%	NC	2.74%	0.32%	1.50%	0.00%	9.27%
SPIKE SAMPLE							
SAMPLE ID	TS-17 (grab sample)	TS-1 (grab sample)	TS-17 (grab sample)		BATCH		
ORIGINAL	0.065	<0.001	0.012		1.41		
SPIKED SAMPLE	0.117	0.019	0.198		12.1		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	103.26%	95.00%	92.92%	NA	106.39%	NA	NA
QC CHECK							
FOUND	0.094	0.039	0.439	95.8	10.7		
TRUE	0.094	0.039	0.428	100	10.0		
% RECOVERY	100.00%	100.00%	102.67%	95.80%	107.00%	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
 Project Manager