



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	1748678	PAGE 1
REPORT DATE:	07/10/24	
DATE SAMPLED:	06/18,19/24	DATE RECEIVED: 06/20/24
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 the subsequent page.

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	0.011	<0.001	0.042				
TS-2	0.080	0.003	0.159				
TS-3	0.035		0.117				
TS-4a	0.041		0.107				
TS-4d	0.033						
TS-5a	0.036		0.043			18	3.3
TS-5b	0.054						
TS-5d	0.043						
TS-6a	0.035	0.008	0.022	112		3.7	1.5
TS-6b	0.045						
TS-6c	0.035						
TS-6d	0.033	0.008					
TS-7a	0.027		0.016			8.5	1.9
TS-7b	0.022						
TS-7d	0.024						
TS-8a	0.024		0.062			8.0	2.1
TS-8d	0.024						
TS-9	0.031	0.014	0.043	124	12.5		
TS-11a	0.042	0.002	0.011	133		20	2.5
TS-11b	0.058						
TS-11c	0.061						
TS-11d	0.066						
TS-12a	0.052		0.059			15	4.5
TS-12d	0.051						
TS-14	0.031	<0.001	0.051	122	12.4		
TS-15a	0.055		0.024			5.9	1.6
TS-15b	0.052						
TS-15c	0.050						
TS-15d	0.082						
TS-16	0.034	<0.001	0.043	120	12.4		

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	171	
TS-2		3.76
TS-6a		0.467
TS-9	297	
TS-11a		0.618
TS-14	306	0.626
TS-16	302	0.640



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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	06/24/24	06/21/24	06/21/24	07/02/24	06/26/24	07/09/24	07/09/24
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-16	TS-16	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.034	<0.001	<0.010	60.2	14.6	2.7	0.7
DUPLICATE	0.034	<0.001	<0.010	60.0	15.4	2.7	0.8
RPD	0.87%	NC	NC	0.33%	5.36%	0.00%	13.33%
SPIKE SAMPLE							
SAMPLE ID	TS-16	TS-16	BATCH		BATCH		
ORIGINAL	0.034	<0.001	<0.010		14.6		
SPIKED SAMPLE	0.088	0.020	0.206		25.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	108.47%	97.50%	103.00%	NA	108.67%	NA	NA
QC CHECK							
FOUND	0.099	0.038	0.410	96.3	10.5		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	105.32%	97.44%	100.49%	96.30%	105.00%	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