



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	1743130	PAGE 1
REPORT DATE:	10/17/23	
DATE SAMPLED:	09/28/23	DATE RECEIVED: 09/29/23
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty nine 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	0.005	<0.001	<0.010				
TS-2	0.035	0.014	1.97				
TS-3	5.93		0.013				
TS-4a	0.035		0.249				
TS-4d	0.037						
TS-5a	0.052		0.058			32	4.4
TS-5b	0.052						
TS-5d	0.037						
TS-6a	0.031	0.001	<0.010	126		32	4.2
TS-6b	0.035						
TS-6c	0.029						
TS-6d	0.030	<0.001					
TS-7a	0.036		<0.010			30	4.6
TS-7b	0.031						
TS-7d	0.036						
TS-8a	0.022		0.444			15	6.4
TS-8d	0.029						
TS-9	0.157	0.045	12.6	411	60.1		
TS-11a	0.054	<0.001	0.024	130		58	6.2
TS-11b	0.067						
TS-11c	0.064						
TS-11d	0.067						
TS-12a	0.066		0.051			65	5.6
TS-12d	0.067						
TS-14	0.146	0.110	1.56	149	17.0		
TS-15a	0.034		<0.010			40	4.4
TS-15b	0.035						
TS-15c	0.036						
TS-15d	0.036						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	147	
TS-2		2.73
TS-6a		0.447
TS-9	1103	
TS-11a		0.679
TS-14	364	2.08



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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	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7	SM1810200H	SM1810200H
DATE ANALYZED	10/09/23	09/30/23	09/30/23	10/11/23	10/06/23	10/16/23	10/16/23
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS - 15d	BATCH	TS-15a	BATCH	BATCH	TS-5a	TS-5a
ORIGINAL	0.036	<0.001	<0.010	86.3	25.7	32	4.4
DUPLICATE	0.035	<0.001	<0.010	85.3	25.2	34	3.6
RPD	1.58%	NC	NC	1.17%	1.95%	3.60%	19.12%
SPIKE SAMPLE							
SAMPLE ID	TS - 15d	BATCH	TS-15a		BATCH		
ORIGINAL	0.036	<0.001	<0.010		25.7		
SPIKED SAMPLE	0.092	0.020	0.188		35.0		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	113.45%	100.00%	94.00%	NA	93.32%	NA	NA
QC CHECK							
FOUND	0.095	0.039	0.433	99.8	9.82		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.38%	100.00%	106.13%	99.80%	98.20%	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