



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1734537	PAGE 1
REPORT DATE:	09/06/22	
DATE SAMPLED:	08/24/22	DATE RECEIVED: 08/25/22
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	0.007	<0.001	<0.010				
TS-2	0.042	0.015	1.26				
TS-3	0.140		3.25				
TS-4a	0.025		0.128				
TS-4d	0.027						
TS-5a	0.024		0.037			5.3	3.9
TS-5b	0.021						
TS-5d	0.021						
TS-6a	0.010	0.002	<0.010	126		2.8	1.6
TS-6b	0.009						
TS-6c	0.010						
TS-6d	0.010	0.002					
TS-7a	0.020		<0.010			13	2.0
TS-7b	0.018						
TS-7d	0.017						
TS-8a	0.038		<0.010			17	2.7
TS-8d	0.037						
TS-9	0.094	0.051	14.2	422	59.6		
TS-11a	0.022	0.004	0.012	133		6.4	2.6
TS-11b	0.020						
TS-11c	0.021						
TS-11d	0.021						
TS-12a	0.021		<0.010			6.9	2.6
TS-12d	0.021						
TS-14	0.275	0.080	1.37	159	17.1		
TS-15a	0.026		<0.010			8.0	3.2
TS-15b	0.025						
TS-15c	0.026						
TS-15d	0.025						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	149	
TS-2		2.24
TS-6a		0.410
TS-9	1044	
TS-11a		0.612
TS-14	363	2.64



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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	08/29/22	08/26/22	08/26/22	09/01/22	09/06/22	09/08/22	09/08/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-15d	BATCH	TS-15a	TS-14	BATCH	TS-8a	TS-8a
ORIGINAL	0.025	<0.001	<0.010	159	4.99	17	2.7
DUPLICATE	0.026	<0.001	<0.010	159	5.01	17	2.8
RPD	2.88%	NC	NC	0.31%	0.26%	1.74%	3.21%
SPIKE SAMPLE							
SAMPLE ID	TS-15d	BATCH	TS-15a		BATCH		
ORIGINAL	0.025	<0.001	<0.010		4.99		
SPIKED SAMPLE	0.074	0.021	0.208		14.7		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	98.51%	105.00%	104.00%	NA	96.75%	NA	NA
QC CHECK							
FOUND	0.095	0.037	0.421	98.8	10.0		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.06%	94.87%	103.19%	98.80%	100.00%	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:

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 Project Manager