



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1733250	PAGE 1
REPORT DATE:	07/21/22	
DATE SAMPLED:	06/22/22	DATE RECEIVED: 06/23/22
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	0.014	0.001	0.035				
TS-2	0.051	0.008	1.30				
TS-3	0.021		1.64				
TS-4a	0.021		0.464				
TS-4d	0.028						
TS-5a	0.015		0.144			6.1	2.1
TS-5b	0.016						
TS-5d	0.037						
TS-6a	0.017	0.001	0.023	108		3.5	2.3
TS-6b	0.017						
TS-6c	0.014						
TS-6d	0.024	0.002					
TS-7a	0.018		0.021			4.8	1.5
TS-7b	0.015						
TS-7d	0.010						
TS-8a	0.035		0.018			10	3.4
TS-8d	0.037						
TS-9	0.070	0.040	16.0	400	61.1		
TS-11a	0.021	0.002	0.030	122		5.9	2.3
TS-11b	0.021						
TS-11c	0.018						
TS-11d	0.018						
TS-12a	0.017		0.014			4.7	2.7
TS-12d	0.023						
TS-14	0.156	0.104	1.34	162	17.6		
TS-15a	0.021		0.017			6.3	2.3
TS-15b	0.028						
TS-15c	0.023						
TS-15d	0.023						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	89	
TS-2		1.94
TS-6a		0.261
TS-9	595	
TS-11a		0.235
TS-14	219	1.75



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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	07/05/22	06/24/22	06/24/22	06/30/22	07/08/22	06/28/22	06/28/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-8a	TS-14	TS-15a	BATCH	BATCH	TS-15a	TS-15a
ORIGINAL	0.035	0.104	0.017	<1.00	85.6	6.3	2.3
DUPLICATE	0.034	0.104	0.014	<1.00	81.7	6.0	2.8
RPD	2.11%	0.00%	16.96%	NC	4.69%	5.41%	19.48%
SPIKE SAMPLE							
SAMPLE ID	TS-8a	TS-14	TS-15a		BATCH		
ORIGINAL	0.035	0.104	0.017				
SPIKED SAMPLE	0.085	0.124	0.227				
SPIKE ADDED	0.050	0.020	0.200				
% RECOVERY	100.76%	97.50%	105.27%	NA	OR	NA	NA
QC CHECK							
FOUND	0.098	0.038	0.435	99.5	10.5		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	104.26%	97.44%	106.50%	99.50%	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