



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1726762	PAGE 1
REPORT DATE:	10/22/21	
DATE SAMPLED:	09/09/21	DATE RECEIVED: 09/10/21
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty seven 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	0.008	<0.001	0.012				
TS-2	0.031	0.011	1.76				
TS-5a	0.018		0.055			5.3	1.6
TS-5b	0.017						
TS-5d	0.021						
TS-6a	0.031		<0.010			14	1.0
TS-6b	0.044						
TS-6c	0.029						
TS-6d	0.083						
TS-7a	0.026		<0.010			15	0.4
TS-7b	0.027						
TS-7d	0.033						
TS-11a	0.053		0.040			10	1.8
TS-11b	0.032						
TS-11c	0.029						
TS-11d	0.032						
TS-15a	0.090		0.028			11	0.5
TS-15b	0.027						
TS-15c	0.027						
TS-15d	0.073						
TS-12	0.042		0.249			17	3.6
TS-13	0.058	0.037	2.41	279	24.6		
TS-14	0.140	0.088	1.39	159	19.6		
TS-9	0.067	0.044	14.2	435	61.5		
TS-8	0.039		<0.010			8.5	2.7
TS-3	0.044		0.144				
TS-4	0.036		0.155				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.396
TS-13	619	
TS-14	361	
TS-9	960	



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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	09/20/21	09/10/21	09/10/21	09/22/21	10/21/21	10/05/21	10/05/21
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-4	TS-9	TS - 4	TS-9	BATCH	BATCH	BATCH
ORIGINAL	0.036	0.044	0.155	435	79.8	4.3	5.8
DUPLICATE	0.037	0.043	0.162	435	77.5	4.3	6.2
RPD	2.34%	1.44%	4.39%	0.12%	2.91%	0.00%	6.22%
SPIKE SAMPLE							
SAMPLE ID	TS-4	TS-9	TS - 4		BATCH		
ORIGINAL	0.036	0.044	0.155		79.8		
SPIKED SAMPLE	0.085	0.064	0.335		88.4		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	98.50%	100.42%	89.83%	NA	86.60%	NA	NA
QC CHECK							
FOUND	0.095	0.041	0.421	100	10.9		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.06%	105.13%	103.19%	100.00%	109.00%	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 Gadowski

Damien Gadowski
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