



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	1716362	PAGE 1
REPORT DATE:	10/20/20	
DATE SAMPLED:	09/01/20	DATE RECEIVED: 09/02/20
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	0.036				
TS-2	0.068	0.008	1.29				
TS-5a	0.047		0.064			14	2.9
TS-5b	0.032						
TS-5d	0.027						
TS-6a	0.049		0.032			17	3.1
TS-6b	0.049						
TS-6c	0.048						
TS-6d	0.042						
TS-7a	0.031		0.016			13	2.0
TS-7b	0.032						
TS-7d	0.050		0.015				
TS-11a	0.061		0.020			14	1.7
TS-11b	0.055						
TS-11c	0.058						
TS-11d	0.061						
TS-15a	0.039		0.018			17	2.3
TS-15b	0.056						
TS-15c	0.042						
TS-15d	0.043						
TS-12	0.111		0.086			53	6.4
TS-13	0.289	0.031	1.04	281	28.6		
TS-14	0.163	0.095	3.32	167	17.3		
TS-9	0.156	0.039	4.33	415	57.7		
TS-8	0.101		<0.010			9.6	5.3
TS-3	0.023		0.098				
TS-4	0.018		0.092				

SAMPLE ID	CONDUCTIVITY (umhos/cm)
TS-13	607
TS-14	381
TS-9	949



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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	09/08/20	09/02/20	09/03/20	09/04/20	09/09/20	09/03/20	09/03/20
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-11b	BATCH	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.055	<0.001	<0.010	24.5	<0.500	5.9	3.5
DUPLICATE	0.055	<0.001	<0.010	24.4	<0.500	5.3	4.0
RPD	1.47%	NC	NC	0.41%	NC	9.52%	14.29%
SPIKE SAMPLE							
SAMPLE ID	TS-11b	BATCH	BATCH		BATCH		
ORIGINAL	0.055	<0.001	<0.010		<0.500		
SPIKED SAMPLE	0.108	0.022	0.178		9.95		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	104.91%	110.00%	89.00%	NA	99.50%	NA	NA
QC CHECK							
FOUND	0.095	0.040	0.403	104	9.52		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.06%	102.56%	98.77%	104.00%	95.20%	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