



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1715241	PAGE 1
REPORT DATE:	08/03/20	
DATE SAMPLED:	07/22/20	DATE RECEIVED: 07/23/20
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	0.012				
TS-2	0.054	0.006	1.40				
TS-5a	0.049		0.226			30	0.8
TS-5b	0.049						
TS-5d	0.047						
TS-6a	0.022		0.031			11	0.9
TS-6b	0.025						
TS-6c	0.111						
TS-6d	0.064						
TS-7a	0.021		0.020			7.5	0.7
TS-7b	0.022						
TS-7d	0.104		<0.010				
TS-11a	0.045		<0.010			31	0.1
TS-11b	0.040						
TS-11c	0.050						
TS-11d	0.117						
TS-15a	0.086		<0.010			78	1.1
TS-15b	0.070						
TS-15c	0.070						
TS-15d	0.127						
TS-12	0.305		0.054			364	21.6
TS-13	0.042	0.022	2.04	242	14.3		
TS-14	0.146	0.103	1.57	147	21.1		
TS-9	0.225	0.047	11.8	373	17.8		
TS-8	0.049		<0.010			11	2.7
TS-3	0.025		0.345				
TS-4	0.039		0.414				

SAMPLE ID	CONDUCTIVITY (umhos/cm)
TS-13	580
TS-14	375
TS-9	936



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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	07/27/20	07/23/20	07/23/20	07/24/20	07/25/20	07/27/20	07/27/20
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	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.039	0.047	0.414	62.8	20.8	19	1.8
DUPLICATE	0.039	0.047	0.423	61.2	20.7	21	2.0
RPD	0.66%	1.03%	2.25%	2.58%	0.19%	8.40%	10.71%
SPIKE SAMPLE							
SAMPLE ID	TS-4	TS-9	TS-4		BATCH		
ORIGINAL	0.039	0.047	0.414		20.8		
SPIKED SAMPLE	0.092	0.067	0.626		29.9		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	105.88%	97.56%	105.97%	NA	91.50%	NA	NA
QC CHECK							
FOUND	0.094	0.039	0.428	96.5	9.63		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	100.00%	100.00%	105.01%	96.50%	96.30%	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

Damien Gadomski
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