



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1714855	PAGE 1
REPORT DATE:	07/24/20	
DATE SAMPLED:	07/09/20	DATE RECEIVED: 07/10/20
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	0.006	<0.001	0.023				
TS-2	0.052	0.006	1.58				
TS-5a	0.065		0.069			55	3.3
TS-5b	0.052						
TS-5d	0.136						
TS-6a	0.033		<0.010			17	0.1
TS-6b	0.035						
TS-6c	0.065						
TS-6d	0.108						
TS-7a	0.027		<0.010			6.4	<0.1
TS-7b	0.031						
TS-7d	0.028		<0.010				
TS-11a	0.065		<0.010			49	2.2
TS-11b	0.068						
TS-11c	0.063						
TS-11d	0.064						
TS-15a	0.070		<0.010			23	<0.1
TS-15b	0.075						
TS-15c	0.071						
TS-15d	0.067						
TS-12	0.250		0.020			170	3.3
TS-13	0.519	0.011	2.27	242	19.6		
TS-14	0.177	0.103	1.56	153	17.0		
TS-9	0.324	0.036	13.3	364	56.7		
TS-8	0.057		<0.010			13	1.6
TS-3	0.029		1.56				
TS-4	0.086		0.387				

SAMPLE ID	CONDUCTIVITY (umhos/cm)
TS-13	572
TS-14	371
TS-9	900



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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	07/20/20	07/10/20	07/10/20	07/15/20	07/14/20	07/14/20	07/14/20
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	0.086	0.036	0.387	70.4	21.1	8.0	8.1
DUPLICATE	0.087	0.036	0.379	70.8	21.4	7.4	8.5
RPD	1.26%	0.39%	2.08%	0.57%	1.32%	7.92%	5.79%
SPIKE SAMPLE							
SAMPLE ID	TS-4	TS-9	TS-4		BATCH		
ORIGINAL	0.086	0.036	0.387		21.1		
SPIKED SAMPLE	0.136	0.056	0.576		30.8		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	100.35%	96.97%	94.33%	NA	96.80%	NA	NA
QC CHECK							
FOUND	0.097	0.039	0.417	95.3	9.27		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	103.19%	100.00%	102.21%	95.30%	92.70%	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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Damien Gadomski
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