



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	1717399	PAGE 1
REPORT DATE:	10/20/20	
DATE SAMPLED:	09/29/20	DATE RECEIVED: 09/30/20
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	0.011	<0.001	<0.010				
TS-2	0.038	0.020	1.00				
TS-5a	0.043		0.044			55	2.6
TS-5b	0.052						
TS-5d	0.056						
TS-6a	0.045		0.019			35	0.3
TS-6b	0.073						
TS-6c	0.046						
TS-6d	0.045						
TS-7a	0.041		0.010			36	1.1
TS-7b	0.056						
TS-7d	0.051		0.011				
TS-11a	0.039		0.067			62	1.2
TS-11b	0.045						
TS-11c	0.058						
TS-11d	0.043						
TS-15a	0.043		0.053			52	1.7
TS-15b	0.039						
TS-15c	0.072						
TS-15d	0.057						
TS-12	0.032		0.064			48	2.4
TS-13	0.171	0.023	4.33	271	22.5		
TS-14	0.136	0.102	2.12	166	18.0		
TS-9	0.072	0.054	14.1	400	60.6		
TS-8	0.104		0.046			11	2.4
TS-3	0.043		0.992				
TS-4	0.049		0.100				

SAMPLE ID	CONDUCTIVITY (umhos/cm)
TS-13	605
TS-14	383
TS-9	980



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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	10/12/20	10/02/20	10/02/20	10/05/20	10/07/20	10/07/20	10/07/20
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-4	BATCH	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.049	<0.001	0.100	63.2	2.61	4.3	0.2
DUPLICATE	0.049	<0.001	0.097	63.0	2.61	4.3	0.2
RPD	0.26%	NC	3.12%	0.32%	0.11%	0.00%	0.00%
SPIKE SAMPLE							
SAMPLE ID	TS-4	BATCH	BATCH		BATCH		
ORIGINAL	0.049	<0.001	0.100		2.61		
SPIKED SAMPLE	0.104	0.022	0.313		12.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	109.14%	110.00%	106.57%	NA	99.10%	NA	NA
QC CHECK							
FOUND	0.096	0.040	0.414	103	9.58		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	102.13%	102.56%	101.47%	103.00%	95.80%	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