



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
 3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
 PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	1724427 and 1724428	PAGE 1
REPORT DATE:	07/09/21	
DATE SAMPLED:	06/15/21	DATE RECEIVED: 06/16/21
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	0.006	<0.001	0.016				
TS-2	0.044	0.009	1.16				
TS-5a	0.012		0.089			2.3	0.6
TS-5b	0.013						
TS-5d	0.021						
TS-6a	0.015		0.052			3.9	0.6
TS-6b	0.016						
TS-6c	0.015						
TS-6d	0.085						
TS-7a	0.019		0.051			3.9	1.1
TS-7b	0.016						
TS-7d	0.014						
TS-11a	0.058		0.122			20	0.6
TS-11b	0.085						
TS-11c	0.063						
TS-11d	0.046						
TS-15a	0.024		0.104			6.4	7.8
TS-15b	0.024						
TS-15c	0.025						
TS-15d	0.029						
TS-12	0.074		0.472			2.9	3.8
TS-13	0.032	0.009	1.91	284	21.3		
TS-14	0.150	0.100	1.07	408	17.5		
TS-9	0.039	0.019	13.5	173	55.8		
TS-8	0.061		<0.010			15	4.5
TS-3	0.030		0.121				
TS-4	0.018		0.076				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.431
TS-13	596	
TS-14	364	
TS-9	934	



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
 3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
 PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	1724427 and 1724428	PAGE 2
REPORT DATE:	07/09/21	
DATE SAMPLED:	06/15/21	DATE RECEIVED: 06/16/21
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

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	06/21/21	06/18/21	06/17/21	06/22/21	06/21/21	06/21/21	06/21/21
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-4	BATCH	TS-4	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.018	<0.001	0.076	106	<0.500	20	0.6
DUPLICATE	0.017	<0.001	0.075	107	<0.500	20	0.5
RPD	5.22%	NC	2.04%	0.94%	NC	1.48%	18.18%
SPIKE SAMPLE							
SAMPLE ID	TS-4	BATCH	TS-4		BATCH		
ORIGINAL	0.018	<0.001	0.076		<0.500		
SPIKED SAMPLE	0.065	0.020	0.257		9.03		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	94.23%	100.00%	90.58%	NA	90.30%	NA	NA
QC CHECK							
FOUND	0.099	0.040	0.416	105	9.33		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	105.32%	102.56%	102.01%	105.00%	93.30%	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
 Project Manager