



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	1748328	PAGE 1
REPORT DATE:	07/06/24	
DATE SAMPLED:	06/05/24	DATE RECEIVED: 06/06/24
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM MLIRD		

CASE NARRATIVE

Thirty 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	<0.010				
TS-2	0.055	0.008	2.20				
TS-3	0.04		2.32				
TS-4a	0.035		0.047				
TS-4d	0.034						
TS-5a	0.031		0.043			5.0	1.1
TS-5b	0.024						
TS-5d	0.025						
TS-6a	0.030	0.003	0.023	108		4.8	1.2
TS-6b	0.060						
TS-6c	0.106						
TS-6d	0.033	0.009					
TS-7a	0.024		0.015			4.3	2.5
TS-7b	0.038						
TS-7d	0.028						
TS-8a	0.024		0.012			6.8	1.6
TS-8d	0.024						
TS-9	0.030	<0.001	0.117	114	9.60		
TS-11a	0.045	0.005	0.043	142		17	6.4
TS-11b	0.049						
TS-11c	0.050						
TS-11d	0.049						
TS-12a	0.060		0.101			15	4.1
TS-12d	0.069						
TS-14	0.128	0.037	0.186	163	15.7		
TS-15a	0.066		0.026			6.5	1.6
TS-15b	0.059						
TS-15c	0.056						
TS-15d	0.052						
TS-16	0.124	0.041	0.183	160	15.7		

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	160	
TS-2		3.37
TS-6a		0.551
TS-9	272	
TS-11a		0.930
TS-14	357	1.19
TS-16	359	1.04



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	1748328	PAGE 2
REPORT DATE:	07/06/24	
DATE SAMPLED:	06/05/24	DATE RECEIVED: 06/06/24
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	06/10/24	06/07/24	06/07/24	06/12/24	06/12/24	07/01/24	07/01/24
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-16	TS-16	TS-16	TS-6a	BATCH	TS-15a	TS-15a
ORIGINAL	0.124	0.041	0.183	108	15.7	6.5	1.6
DUPLICATE	0.125	0.041	0.187	108	15.8	5.6	1.6
RPD	1.23%	1.03%	2.41%	0.19%	0.34%	14.63%	3.70%
SPIKE SAMPLE							
SAMPLE ID	TS-16	TS-16	TS-16		BATCH		
ORIGINAL	0.124	0.041	0.183		15.7		
SPIKED SAMPLE	0.179	0.060	0.366		26.1		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	110.37%	95.76%	91.88%	NA	103.45%	NA	NA
QC CHECK							
FOUND	0.095	0.041	0.387	97.3	10.7		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.06%	105.13%	94.89%	97.30%	107.00%	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
 Project Manager