



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1742751	PAGE 1
REPORT DATE:	10/13/23	
DATE SAMPLED:	09/12/23	DATE RECEIVED: 09/13/23
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty nine 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	0.004	<0.001	0.010				
TS - 2	0.031	0.009	1.62				
TS - 3	3.36		0.041				
TS - 4a	0.038		0.072				
TS - 4d	0.041						
TS - 5a	0.027		0.039			16	3.1
TS - 5b	0.030						
TS - 5d	0.041						
TS - 6a	0.022	<0.001	<0.010	123		11	2.6
TS - 6b	0.024						
TS - 6c	0.022						
TS - 6d	0.173	0.065					
TS - 7a	0.025		<0.010			10	2.5
TS - 7b	0.024						
TS - 7d	0.027						
TS - 8a	0.024		0.426			15	4.9
TS - 8d	0.030						
TS - 9	0.117	0.057	14.3	412	54.0		
TS - 11a	0.028	0.003	0.062	122		14	2.3
TS - 11b	0.032						
TS - 11c	0.034						
TS - 11d	0.032						
TS - 12a	0.050		0.467			27	6.0
TS - 12d	0.042						
TS - 14	0.129	0.102	1.34	154	15.2		
TS - 15a	0.029		0.011			18	2.9
TS - 15b	0.032						
TS - 15c	0.032						
TS - 15d	0.049						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	146	
TS-2		2.90
TS-6a		0.645
TS-9	1110	
TS-11a		0.654
TS-14	359	2.71



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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	09/18/23	09/13/23	09/14/23	09/21/23	09/21/23	09/27/23	09/27/23
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS - 15d	BATCH	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.049	<0.001	0.217	86.4	<0.500	7.7	3.1
DUPLICATE	0.051	<0.001	0.221	87.2	<0.500	7.7	3.1
RPD	2.56%	NC	2.08%	0.92%	NC	0.00%	0.00%
SPIKE SAMPLE							
SAMPLE ID	TS - 15d	BATCH	BATCH		BATCH		
ORIGINAL	0.049	<0.001	0.217		<0.500		
SPIKED SAMPLE	0.101	0.022	0.441		10.6		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	102.49%	110.00%	111.87%	NA	106.00%	NA	NA
QC CHECK							
FOUND	0.094	0.039	0.402	98.8	9.82		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	100.30%	100.00%	98.53%	98.80%	98.20%	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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 Project Manager