



# IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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<b>CASE FILE NUMBER:</b>	<b>1735130</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>10/05/22</b>	
<b>DATE SAMPLED:</b>	<b>09/21/22</b>	<b>DATE RECEIVED: 09/22/22</b>
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER</b>		
<b>SAMPLES FROM MLIRD</b>		

## 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)	PHAE0_a (ug/L)
TS-1	0.008	<0.001	<0.010				
TS-2	0.037	0.018	1.74				
TS-3	0.261		3.83				
TS-4a	0.020		0.426				
TS-4d	0.021						
TS-5a	0.036		0.020			38	2.6
TS-5b	0.035						
TS-5d	0.034						
TS-6a	0.050	0.008	0.022	125		23	2.4
TS-6b	0.053						
TS-6c	0.052						
TS-6d	0.052	0.008					
TS-7a	0.049		0.020			21	2.3
TS-7b	0.049						
TS-7d	0.057						
TS-8a	0.032		<0.010			12	2.1
TS-8d	0.032						
TS-9	0.054	0.047	14.6	410	59.9		
TS-11a	0.040	0.002	0.033	123		43	2.5
TS-11b	0.045						
TS-11c	0.040						
TS-11d	0.069						
TS-12a	0.039		0.029			40	2.2
TS-12d	0.041						
TS-14	0.131	0.104	1.58	158	17.2		
TS-15a	0.034		0.021			38	1.8
TS-15b	0.035						
TS-15c	0.034						
TS-15d	0.043						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	145	
TS-2		1.97
TS-6a		0.457
TS-9	1064	
TS-11a		0.392
TS-14	364	1.76



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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 200.8	SM1810200H	SM1810200H
DATE ANALYZED	10/03/22	09/23/22	09/23/22	09/30/22	09/28/22	09/28/22	09/28/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-15d	TS-11a	TS-15a	TS-14	BATCH	BATCH	BATCH
ORIGINAL	0.043	0.002	0.021	158	2.38	43	4.8
DUPLICATE	0.044	0.002	0.021	158	2.38	49	4.7
RPD	1.03%	2.78%	0.00%	0.00%	0.21%	13.95%	1.13%
SPIKE SAMPLE							
SAMPLE ID	TS-15d	TS-11a	TS-15a		BATCH		
ORIGINAL	0.043	0.002	0.021		2.38		
SPIKED SAMPLE	0.088	0.022	0.210		12.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	89.89%	102.98%	94.65%	NA	101.10%	NA	NA
QC CHECK							
FOUND	0.093	0.038	0.410	101	10.1		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	98.94%	97.44%	100.49%	101.00%	101.00%	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:

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