



# IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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<b>CASE FILE NUMBER:</b>	<b>1758381</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>07/19/25</b>	
<b>DATE SAMPLED:</b>	<b>06/25/25</b>	<b>DATE RECEIVED: 06/26/25</b>
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM MLIRD</b>		

## 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 subsequent pages.

## 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	0.005	<0.001	0.011				
TS-2	0.054	0.003	2.04				
TS-4a	0.039		0.450				
TS-4d	0.035						
TS-5a	0.027		0.052			13	0.9
TS-5b	0.031						
TS-5d	0.043						
TS-6a	0.016	<0.001	<0.010	104		4.8	2.7
TS-6b	0.016						
TS-6c	0.021						
TS-6d	0.020	<0.001					
TS-7a	0.013		<0.010			3.7	3.0
TS-7b	0.016						
TS-7d	0.021						
TS-8a	0.032		<0.010			5.3	2.9
TS-8d	0.034						
TS-9	0.024	<0.001	0.028	112	13.5		
TS-11a	0.033	<0.001	0.018	108		12	2.0
TS-11b	0.036						
TS-11c	0.082						
TS-11d	0.058						
TS-12a	0.047		<0.010			17	6.9
TS-12d	0.061						
TS-14	0.154	0.091	1.46	141	16.9		
TS-15a	0.029		0.011			9.3	4.7
TS-15b	0.032						
TS-15c	0.026						
TS-15d	0.025						
TS-18	0.248	0.026	0.282	153	15.7		
TS-17	0.044		<0.010				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	154	
TS-2		2.09
TS-6a		2.11
TS-9	274	
TS-11a		0.565
TS-14	346	1.78
TS-18	358	1.89



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<b>CASE FILE NUMBER:</b>	<b>1758381</b>	<b>PAGE 2</b>
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<b>SAMPLES FROM MLIRD</b>		

## 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	SM20 4500PF	SM20 4500PF	SM204500N03F	SM20 2320B	EPA 200.7	SM2010200H	SM2010200H
DATE ANALYZED	07/01/25	06/23/25	06/27/25	06/27/25	07/01/25	07/01/25	07/01/25
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-17	BATCH	TS-17	BATCH	BATCH	TS-6a	TS-6a
ORIGINAL	0.044	<0.001	<0.010	67.6	4.62	4.8	2.7
DUPLICATE	0.043	<0.001	<0.010	67.6	4.84	4.8	2.3
RPD	2.30%	NC	NC	0.00%	4.82%	0.00%	15.05%
SPIKE SAMPLE							
SAMPLE ID	TS-17	BATCH	TS-17		BATCH		
ORIGINAL	0.044	<0.001	<0.010		4.62		
SPIKED SAMPLE	0.100	0.018	0.184		14.6		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	111.60%	90.00%	92.00%	NA	99.58%	NA	NA
QC CHECK							
FOUND	0.093	0.039	0.449	95.8	10.6		
TRUE	0.094	0.039	0.428	100	10.0		
% RECOVERY	98.94%	100.00%	104.91%	95.80%	106.00%	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  
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