

# IEH ANALYTICAL LABORATORIES

## LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103 PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER: 1740166 PAGE 1

REPORT DATE: 06/28/23

DATE SAMPLED: 05/17/23 DATE RECEIVED: 05/18/23

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**

SAMILE DATA							
	TOTAL-P	SRP	N03+N02	ALKALINITY	SODIUM	CHLOR_a	PHAEO_a
SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mgCaCO3/L)	(mg/L)	(ug/L)	(ug/L)
TS-1	0.005	< 0.001	0.013				
TS-2	0.049	0.010	1.47				
TS-3	0.094		2.63				
TS-4a	0.014		0.126				
TS-4d	0.012						
TS-5a	0.009		0.090			1.6	1.0
TS-5b	0.014						
TS-5d	0.013						
TS-6a	0.007	< 0.001	0.069	102		1.6	1.5
TS-6b	0.020						
TS-6c	0.007						
TS-6d	0.009	< 0.001					
TS-7a	0.008		0.050			1.6	0.8
TS-7b	0.011						
TS-7d	0.009						
TS-8a	0.071		0.011			23	12
TS-8d	0.084						
TS-9	0.138	0.051	15.8	398	58.9		
TS-11a	0.011	0.002	0.178	115		3.9	2.1
TS-11b	0.012						
TS-11c	0.026						
TS-11d	0.011						
TS-12a	0.019		0.240			5.9	2.2
TS-12d	0.016						
TS-14	0.183	0.113	0.992	165	17.3		
TS-15a	0.010		0.148			2.4	1.2
TS-15b	0.011						
TS-15c	0.011						
TS-15d	0.010						

	CONDUCTIVITY	TOTAL-N	
SAMPLE ID	(umhos/cm)	(mg/L)	
TS-1	156		
TS-2		2.64	
TS-6a		0.589	
TS-9	1104		
TS-11a		0.547	
TS-14	384	1.88	



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## QA/QC DATA

QC PARAMETER	TOTAL-P	SRP	N03+N02	ALKALINITY	SODIUM	CHLOR_a	PHAEO_a
	(mg/L)	(mg/L)	(mg/L)	(mgCaCO3/L)	(mg/L)	(ug/L)	(ug/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.8	SM1810200H	SM1810200H
DATE ANALYZED	05/22/23	05/19/23	05/19/23	05/24/23	06/23/23	05/25/23	05/25/23
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-15d	ВАТСН	TS-15a	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.010	< 0.001	0.148	65.6	24.6	3.6	1.4
DUPLICATE	0.010	< 0.001	0.139	65.0	24.5	3.4	1.4
RPD	0.22%	NC	6.75%	0.84%	0.44%	5.13%	5.13%
SPIKE SAMPLE				Ţ			
SAMPLE ID	TS-15d	BATCH	TS-15a		BATCH		
ORIGINAL	0.010	< 0.001	0.148		24.6		
SPIKED SAMPLE	0.058	0.020	0.349		35.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	95.03%	100.00%	100.45%	NA	109.16%	NA	NA
QC CHECK							
FOUND	0.095	0.039	0.417	99.0	10.2		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.06%	100.00%	102.21%	99.00%	102.00%	NA	NA
BLANK	< 0.002	< 0.010	< 0.010	NA	< 0.500	NA	NA

RPD = RELATIVE PERCENT DIFFERENCE.

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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