



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
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CASE FILE NUMBER:	1758773	PAGE 1
REPORT DATE:	07/23/25	
DATE SAMPLED:	07/09/25	DATE RECEIVED: 07/10/25
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Thirty one 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	0.006	<0.001	<0.010				
TS-2	0.062	0.004	1.44				
TS-3	0.033		1.35				
TS-4a	0.024		0.247				
TS-4d	0.026						
TS-5a	0.020		0.080			8.5	3.0
TS-5b	0.019						
TS-5d	0.020						
TS-6a	0.013	<0.001	<0.010	108		5.3	1.0
TS-6b	0.014						
TS-6c	0.016						
TS-6d	0.112	0.033					
TS-7a	0.011		<0.010			3.7	1.5
TS-7b	0.010						
TS-7d	0.013						
TS-8a	0.031		<0.010			9.6	2.0
TS-8d	0.043						
TS-9	0.027	<0.001	0.032	119	15.4		
TS-11a	0.016	<0.001	<0.010	114		6.9	2.0
TS-11b	0.013						
TS-11c	0.016						
TS-11d	0.051						
TS-12a	0.065		0.085			20	1.3
TS-12d	0.035						
TS-14	0.156	0.077	1.24	150	17.3		
TS-15a	0.020		0.019			7.5	0.7
TS-15b	0.025						
TS-15c	0.017						
TS-15d	0.022						
TS-18	0.217	0.025	<0.010	112	19.5		
TS-17	0.460		<0.010				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	149	
TS-2		2.15
TS-6a		0.431
TS-9	272	
TS-11a		0.580
TS-14	350	2.27
TS-18	303	2.34



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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	SM20 4500PF	SM20 4500PF	SM204500N03F	SM20 2320B	EPA 200.7	SM2010200H	SM2010200H
DATE ANALYZED	07/15/25	07/10/25	07/11/25	07/15/25	07/11/25	07/16/25	07/16/25
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-7a	BATCH	TS-17	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.011	<0.001	<0.010	55.5	2.58	3.0	0.3
DUPLICATE	0.011	<0.001	<0.010	55.2	2.60	2.7	0.4
RPD	0.58%	NC	NC	0.67%	0.74%	11.76%	31.58%
SPIKE SAMPLE							
SAMPLE ID	TS-7a	BATCH	TS-17		BATCH		
ORIGINAL	0.011	<0.001	<0.010		2.58		
SPIKED SAMPLE	0.062	0.019	0.176		13.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	101.40%	95.00%	88.00%	NA	108.78%	NA	NA
QC CHECK							
FOUND	0.095	0.041	0.444	96.8	10.9		
TRUE	0.094	0.039	0.428	100	10.0		
% RECOVERY	101.06%	105.13%	103.77%	96.80%	109.00%	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
 Project Manager