



**IEH ANALYTICAL LABORATORIES**  
**LABORATORY & CONSULTING SERVICES**  
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<b>CASE FILE NUMBER:</b>	<b>1760772</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>10/06/25</b>	
<b>DATE SAMPLED:</b>	<b>09/17/25</b>	<b>DATE RECEIVED: 09/18/25</b>
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER</b>		
<b>SAMPLES FROM MLIRD</b>		

**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	0.011	<0.001	<0.010				
TS-2	0.036	0.013	2.32				
TS-3	0.029		<0.010				
TS-4a	0.040		0.242				
TS-4d	0.040						
TS-5a	0.025		0.083			9.2	2.6
TS-5b	0.023						
TS-5d	0.025						
TS-6a	0.038	0.004	0.040	123		11	3.4
TS-6b	0.040						
TS-6c	0.035						
TS-6d	0.040	0.005					
TS-7a	0.030		0.015			14	2.1
TS-7b	0.032						
TS-7d	0.027						
TS-8a	0.039		<0.010			13	4.1
TS-8d	0.040						
TS-9	0.022	<0.001	0.062	130	15.3		
TS-11a	0.039	<0.001	0.094	129		15	2.9
TS-11b	0.042						
TS-11c	0.034						
TS-11d	0.034						
TS-12a	0.051		0.388			25	3.5
TS-12d	0.065						
TS-14	0.137	0.104	1.54	136	17.0		
TS-15a	0.036		0.034			7.7	3.1
TS-15b	0.037						
TS-15c	0.029						
TS-15d	0.028						
TS-18	1.06	0.078	0.012	162	15.3	487	38
TS-17	0.031		<0.010				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	143	
TS-2		2.81
TS-6a		0.554
TS-9	298	
TS-11a		0.646
TS-14	343	1.83
TS-18	342	6.57



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<b>CASE FILE NUMBER:</b>	<b>1760772</b>	<b>PAGE 2</b>
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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	09/22/25	09/19/25	09/18/25	09/25/25	09/20/25	09/24/25	09/24/25
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-5a	TS-5a
ORIGINAL	0.031	<0.001	<0.010	114	2.55	9.2	2.6
DUPLICATE	0.030	<0.001	<0.010	115	2.56	9.8	2.9
RPD	3.77%	NC	NC	0.97%	0.46%	6.25%	8.60%
SPIKE SAMPLE							
SAMPLE ID	TS-17	BATCH	TS-17		BATCH		
ORIGINAL	0.031	<0.001	<0.010		2.55		
SPIKED SAMPLE	0.083	0.019	0.186		13.4		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	102.20%	96.19%	92.94%	NA	108.53%	NA	NA
QC CHECK							
FOUND	0.094	0.038	0.421	92.7	10.9		
TRUE	0.094	0.039	0.428	100	10.0		
% RECOVERY	100.50%	97.44%	98.33%	92.70%	108.80%	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