



**Corporate Accreditation No 63**  
**Accredited for compliance with ISO/IEC 17025 - Testing**



## Analytical Report 288184

**Issue Date:** 20/07/2023  
**Issued By :** Sydney Water Laboratory Services

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### **Sydney Water Approved Signatory**

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Where a result is required to meet a compliance limit or specification the associated uncertainty must be considered. Uncertainty estimates are available for all accredited test results.

**SAMPLE SUMMARY**

<u>Client Sample ID</u>	<u>Sample Number</u>	<u>Sampling Procedure</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Date Authorised</u>	<u>Description</u>
POINT 1	L23057960	1	12/07/2023	13/07/2023	19/07/2023	POLISHER COBAR STP (WASTEWATER)
POINT 2	L23057961	1	12/07/2023	13/07/2023	19/07/2023	TURKEYS COBAR STP (WASTEWATER)
SPITTER BOX 1	L23057962	1	12/07/2023	13/07/2023	19/07/2023	COBAR STP (WASTEWATER)
SPITTER BOX 2	L23057963	1	12/07/2023	13/07/2023	19/07/2023	COBAR STP (WASTEWATER)
S INLET	L23057964	1	12/07/2023	13/07/2023	19/07/2023	COBAR STP (WASTEWATER)

**Sampling procedures**

- 1 Samples analysed as received.
- 2 Samples collected as per FS procedures SAWI 070, Excluding Oil & Grease which is collected as per clients instructions.
- 3 Samples collected as per FS procedures SAWI 070.
- 4 Results reported as received from WNSW.

**ANALYTICAL RESULTS**

<b>Client Sample ID</b>	POINT 1	POINT 2	SPITTER BOX 1	SPITTER BOX 2	S INLET			
<b>Sampled Date</b>	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM			
<b>Sample Number</b>	L23057960	L23057961	L23057962	L23057963	L23057964			

**CHEMISTRY**

**WC12MET : Conductivity**

Conductivity (mS/m)	mS/m	105.9	105.7	-	-	-		
Date of Performance	DD/MM/YY	14/07/23	14/07/23					

**WC17NS : Biochemical oxygen demand**

BOD5	mg/L	5	6	200	53	150		
Date of Performance	DD/MM/YY	14/07/23	14/07/23	14/07/23	14/07/23	14/07/23		

**WC26NS500 : Oil & Grease**

Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	18/07/23	18/07/23					

**WC44NS : Total, Fixed & Volatile Suspended Solids**

Total Suspended Solids	mg/L	10	10	-	-	-		
Date of Performance	DD/MM/YY	17/07/23	17/07/23					

**MICRO**

"-" = Not required or refer to Laboratory comment

Client Sample ID		POINT 1	POINT 2	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM	12/07/2023 12:00:00 AM			
Sample Number		L23057960	L23057961	L23057962	L23057963	L23057964			
<b>MICRO</b>									
MI01 : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	5	-	-	-			
Faecal Coliform	CFU/100mL	-	5	-	-	-			
Date of Performance	D/M/Y H:M		13/07/23 15:13						
<b>NUTRIENTS</b>									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	7.70	6.32	-	-	-			
Total Phosphorus	mg/L	2.65	2.51	-	-	-			
Date of Performance	DD/MM/YY	14/07/23	14/07/23						

**COMMENTS**

Sample ID	Comment Level	Method	Test	Comment
L23057961	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

**Analysis**

MI01

**Analysis Requirements**

Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

"-" = Not required or refer to Laboratory comment

**LABORATORY QC RESULTS**

N/A - Not Applicable

PQL - Practical Quantitation Limit

LOQ - Limit of Quantification

RPD - Relative Percent Difference

SPIKE/Positive Control - Addition of a known amount and concentration

Duplicate Precision = Accepted - Result 2 within 95% confidence limits of result 1

Duplicate Precision = Outlier - Result 2 outside 95% confidence limits of result 1

Duplicate Precision = Not calculated - Result is outside test range

LOQ	Blank	Positive Control <i>Acceptance Criteria</i>	Negative Control <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	Precision <i>Acceptance Criteria</i>
<b>MI01 [Membrane Filtration]E.coli</b>						
<1 CFU/100mL	<1	Accepted	Accepted	5	5	Accepted
<b>MI01 [Membrane Filtration]Faecal Coliform</b>						
<1 CFU/100mL	<1	Accepted	Accepted	5	5	Accepted

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
<b>NU102 Total Nitrogen</b>						
<0.05 mg/L	<0.05	0.91 <i>0.88 - 1.12 mg/L</i>	89 % Recovery <i>80.0 - 120.0 % Recovery</i>	1.17	1.12	4.37 % <i>0.0 - 20.0 %</i>
<b>NU102 Total Phosphorus</b>						
<0.002 mg/L	<0.002	0.049 <i>0.045 - 0.055 mg/L</i>	102 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.029	0.030	3.39 % <i>0.0 - 50.0 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	140.8 <i>139.3 - 143.3 mS/m</i>	E	38.2	37.6	1.58 % <i>0.0 - 20.0 %</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	190 <i>139.0 - 257.0 mg/L</i>	E	3	3	B <i>0.0 - 0.0 %</i>

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
<b>WC26NS500 Oil &amp; Grease</b>						
<5 mg/L	<5	92 85.1 - 101.5 mg/L	E			
<b>WC44NS Total Suspended Solids</b>						
<2 mg/L	<2	54 42.5 - 57.5 mg/L	E	10	9	B 0.0 - 0.0 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

DUPLICATE BOD5 B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ

DUPLICATE Total Suspended Solids B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ