



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



## Analytical Report 238204

**Issue Date:** 30/01/2021  
**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 POLISHER	L21005031	1	12/01/2021	14/01/2021	29/01/2021	
POINT 2 TURKEYS	L21005032	1	12/01/2021	14/01/2021	29/01/2021	
SPLITTER BOX 1	L21005033	1	12/01/2021	14/01/2021	21/01/2021	
SPLITTER BOX 2	L21005034	1	12/01/2021	14/01/2021	21/01/2021	
INLET	L21005035	1	12/01/2021	14/01/2021	21/01/2021	

**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 POLISHER	POINT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET			
<b>Sampled Date</b>		12/01/2021 07:00:00 AM	12/01/2021 07:30:00 AM	12/01/2021 07:15:00 AM	12/01/2021 07:15:00 AM	12/01/2021 07:15:00 AM			
<b>Sample Number</b>		L21005031	L21005032	L21005033	L21005034	L21005035			
<b>CHEMISTRY</b>									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	70.1	70.5	-	-	-			
Date of Performance	DD/MM/YY	14/01/21	14/01/21						
WC17NS : Biological oxygen demand									
BOD5	mg/L	7	8	130	40	120			
Date of Performance	DD/MM/YY	15/01/21	15/01/21	15/01/21	15/01/21	15/01/21			
WC26NS500 : Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	18/01/21	18/01/21						
WC44NS : Determination of Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	20	26	-	-	-			
Date of Performance	DD/MM/YY	18/01/21	18/01/21						
<b>MICRO</b>									

"-" = Not required or refer to Laboratory comment

<b>Client Sample ID</b>	POINT 1 POLISHER	POINT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET			
<b>Sampled Date</b>	12/01/2021 07:00:00 AM	12/01/2021 07:30:00 AM	12/01/2021 07:15:00 AM	12/01/2021 07:15:00 AM	12/01/2021 07:15:00 AM			
<b>Sample Number</b>	L21005031	L21005032	L21005033	L21005034	L21005035			

**MICRO**

## MI01MUG : Faecal Coliform and/or E. coli

E.coli	CFU/100mL	-	47	-	-	-		
Faecal Coliform	CFU/100mL	-	56	-	-	-		
Date of Performance	D/M/Y H:M		14/01/21 14:36					

**NUTRIENTS**

## NU102 : Nitrogen &amp; Phosphorus

Total Nitrogen	mg/L	3.69	3.65	-	-	-		
Total Phosphorus	mg/L	1.22	1.28	-	-	-		
Date of Performance	DD/MM/YY	15/01/21	15/01/21					

**COMMENTS**

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L21005032	Method	MI01MUG	-	Result confirmed. Sample analysed outside recommended holding time of 24Hrs.

**Analysis**

MI01MUG

**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>MI01MUG [Membrane Filtration]E.coli</b>						
<1 CFU/100mL	<1	Accepted	Accepted	47	39	Accepted
<b>MI01MUG [Membrane Filtration]Faecal Coliform</b>						
<1 CFU/100mL	<1	Accepted	Accepted	56	47	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	0.92 <i>0.88 - 1.12 mg/L</i>	94 % Recovery <i>80 - 120 % Recovery</i>	24.4	24.6	0.82 % <i>0 - 20 %</i>
<b>NU102 Total Phosphorus</b>						
<0.002 mg/L	<0.002	0.047 <i>0.045 - 0.055 mg/L</i>	94 % Recovery <i>80 - 120 % Recovery</i>	3.40	3.36	1.18 % <i>0 - 20 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	141.2 <i>139.3 - 143.3 mS/m</i>	E	13.6	13.6	0.00 % <i>0 - 20 %</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	210 <i>139 - 257 mg/L</i>	E	180	210	15.38 % <i>0 - 20 %</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	88 85.1 - 101.5 mg/L	E			
<b>WC44NS Total Suspended Solids</b>						
<2 mg/L	<2	50 42.5 - 57.5 mg/L	E	380	380	0.00 % 0 - 20 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte