



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



## Analytical Report 240104

**Issue Date:** 02/03/2021  
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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>
PT 1 POLISHER	L21016368	1	16/02/2021	17/02/2021	01/03/2021	(WATER SAMPLE)
PT 2 TURKEYS	L21016369	1	16/02/2021	17/02/2021	01/03/2021	(WATER SAMPLE)
SPLITTER BOX 1	L21016370	1	16/02/2021	17/02/2021	01/03/2021	(WATER SAMPLE)
SPLITTER BOX 2	L21016371	1	16/02/2021	17/02/2021	01/03/2021	(WATER SAMPLE)
INLET	L21016372	1	16/02/2021	17/02/2021	01/03/2021	(WATER SAMPLE)

**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>		PT 1 POLISHER	PT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET			
<b>Sampled Date</b>		16/02/2021 07:30:00 AM	16/02/2021 07:45:00 AM	16/02/2021 07:15:00 AM	16/02/2021 07:15:00 AM	16/02/2021 07:15:00 AM			
<b>Sample Number</b>		L21016368	L21016369	L21016370	L21016371	L21016372			
<b>CHEMISTRY</b>									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	67.0	67.2	-	-	-			
Date of Performance	DD/MM/YY	18/02/21	18/02/21						
WC17NS : Biological oxygen demand									
BOD5	mg/L	22	19	170	21	110			
Date of Performance	DD/MM/YY	19/02/21	19/02/21	18/02/21	18/02/21	18/02/21			
WC26NS500 : Grease									
Oil & Grease	mg/L	<5	6	-	-	-			
Date of Performance	DD/MM/YY	22/02/21	22/02/21						
<b>MICRO</b>									
MI01 : Faecal Coliform and/or E. coli									
Faecal Coliform	CFU/100mL	-	~38	-	-	-			
Date of Performance	D/M/Y H:M		17/02/21 16:04						

"-" = Not required or refer to Laboratory comment

<b>Client Sample ID</b>		PT 1 POLISHER	PT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET			
<b>Sampled Date</b>		16/02/2021 07:30:00 AM	16/02/2021 07:45:00 AM	16/02/2021 07:15:00 AM	16/02/2021 07:15:00 AM	16/02/2021 07:15:00 AM			
<b>Sample Number</b>		L21016368	L21016369	L21016370	L21016371	L21016372			
<b>MICRO</b>									
MI28 : Total Coliforms and/or E.coli									
E.coli	Orgs / 100mL	-	28	-	-	-			
Date of Performance	D/M/Y H:M		17/02/21 16:04						
<b>NUTRIENTS</b>									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	9.53	9.81	-	-	-			
Total Phosphorus	mg/L	1.52	1.59	-	-	-			
Date of Performance	DD/MM/YY	18/02/21	18/02/21						

(~): Counts of target colonies are outside the optimal precision range.

#### COMMENTS

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L21016369	Method	MI01	-	Result confirmed.
L21016369	Method	MI28	-	Sample analysed outside recommended holding time of 24Hrs

#### 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]Faecal Coliform</b>						
<1 CFU/100mL	<1	Accepted	Accepted	~38	~30	Accepted
<b>MI28 [Enzyme Substrate Techniques]E.coli</b>						
<1 Orgs / 100mL	<1	Accepted	Accepted	28	26	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>	103 % Recovery <i>80 - 120 % Recovery</i>	0.32	0.32	B <i>0 - 0 %</i>
<b>NU102 Total Phosphorus</b>						
<0.002 mg/L	<0.002	0.049 <i>0.045 - 0.055 mg/L</i>	98 % Recovery <i>80 - 120 % Recovery</i>	0.006	0.006	B <i>0 - 0 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	140.8 <i>139.3 - 143.3 mS/m</i>	E	117.9	118.2	0.25 % <i>0 - 20 %</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	180 <i>139 - 257 mg/L</i>	E	290	310	6.67 % <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	<b>88</b> 85.1 - 101.5 mg/L	<b>E</b>			

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

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