

# Analytical Report 232666



## Laboratory Services

**Issue Date:** 24/10/2020  
**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.

**Corporate Accreditation No 63**

**Accredited for compliance with ISO/IEC 17025 - Testing**

**SAMPLE SUMMARY**

<u>Client</u> <u>Sample ID</u>	<u>Sample</u> <u>Number</u>	<u>Sampling</u> <u>Procedure</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	<u>Date</u> <u>Authorised</u>	<u>Description</u>
Point 1 (Polish)	L20084987	1	14/10/2020	15/10/2020	23/10/2020	Polisher
Point 2 (Turkey)	L20084988	1	14/10/2020	15/10/2020	23/10/2020	
Spitter Box 1	L20084989	1	14/10/2020	15/10/2020	22/10/2020	
Spitter Box 2	L20084990	1	14/10/2020	15/10/2020	22/10/2020	
S Inlet	L20084991	1	14/10/2020	15/10/2020	22/10/2020	

**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 (Polish)	Point 2 (Turkey)	Spitter Box 1	Spitter Box 2	S Inlet			
<b>Sampled Date</b>		14/10/2020 07:30:00 AM	14/10/2020 07:50:00 AM	14/10/2020 07:40:00 AM	14/10/2020 07:40:00 AM	14/10/2020 07:40:00 AM			
<b>Sample Number</b>		L20084987	L20084988	L20084989	L20084990	L20084991			
<b>CHEMISTRY</b>									
<b>WC12MET : Conductivity</b>									
Conductivity (mS/m)	mS/m	93.4	94.7	-	-	-			
Date of Performance	DD/MM/YY	15/10/20	15/10/20						
<b>WC17NS : Biological oxygen demand</b>									
BOD5	mg/L	5	4	200	17	180			
Date of Performance	DD/MM/YY	16/10/20	16/10/20	16/10/20	16/10/20	16/10/20			
<b>WC26NS500 : Grease</b>									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	20/10/20	20/10/20						
<b>WC44NS : Determination of Total, Fixed &amp; Volatile Suspended Solids</b>									
Total Suspended Solids	mg/L	12	4	-	-	-			
Date of Performance	DD/MM/YY	19/10/20	19/10/20						
<b>MICRO</b>									

"-" = Not required or refer to Laboratory comment

Client Sample ID	Point 1 (Polish)	Point 2 (Turkey)	Spitter Box 1	Spitter Box 2	S Inlet			
<b>Sampled Date</b>	14/10/2020 07:30:00 AM	14/10/2020 07:50:00 AM	14/10/2020 07:40:00 AM	14/10/2020 07:40:00 AM	14/10/2020 07:40:00 AM			
<b>Sample Number</b>	L20084987	L20084988	L20084989	L20084990	L20084991			
<b>MICRO</b>								
MI01MUG : Faecal Coliform and/or E. coli								
E.coli	CFU/100mL	-	21	-	-	-		
Faecal Coliform	CFU/100mL	-	21	-	-	-		
Date of Performance	D/M/Y H:M		15/10/20 16:27					
<b>NUTRIENTS</b>								
NU102 : Nitrogen & Phosphorus								
Total Nitrogen	mg/L	17.7	14.0	-	-	-		
Total Phosphorus	mg/L	2.78	2.18	-	-	-		
Date of Performance	DD/MM/YY	16/10/20	16/10/20					

**COMMENTS**

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L20084988	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	21	29	Not Calculated
<b>MI01MUG [Membrane Filtration]Faecal Coliform</b>						
<1 CFU/100mL	<1	Accepted	Accepted	21	29	Not Calculated

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	0.94 <i>0.88 - 1.12 mg/L</i>	94 % Recovery <i>80 - 120 % Recovery</i>	0.33	0.34	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>	94 % Recovery <i>80 - 120 % Recovery</i>	0.020	0.019	B <i>0 - 0 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	141.7 <i>139.3 - 143.3 mS/m</i>	E	93.4	93.4	0.00 % <i>0 - 20 %</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	190 <i>139 - 257 mg/L</i>	E	180	180	0.00 % <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>96</b> 85.1 - 101.5 mg/L	<b>E</b>			
<b>WC44NS Total Suspended Solids</b>						
<2 mg/L	<2	<b>52</b> 42.5 - 57.5 mg/L	<b>E</b>	<b>380</b>	<b>390</b>	<b>2.60 %</b> 0 - 20 %

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