# Analytical Report 196428



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Issue Date: 20/12/2018

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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> Sample ID	<u>Sample</u> <u>Number</u>	Sampling Procedure	<u>Date</u> Sampled	<u>Date</u> <u>Received</u>	<u>Date</u> Authorised	<u>Description</u>
Point 1	L18054862	1	12/12/2018	13/12/2018	19/12/2018	Polisher
Point 2	L18054863	1	12/12/2018	13/12/2018	19/12/2018	Turkeys

#### **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**

Client Sample ID		Point 1	Point 2						
Sampled Date		12/12/2018 07:30:00 AM	12/12/2018 07:30:00 AM						
Sample Number		L18054862	L18054863						
CHEMISTRY									
WC12MET : Conductivity									
	_					_	_	_	
Conductivity (mS/m)	mS/m	123.3	109.4						
Date of Performance	DD/MM/YY	13/12/18	13/12/18						
WC17NS : Biological oxygen	demand								
BOD5	mg/L	<2	9						
Date of Performance	DD/MM/YY	14/12/18	14/12/18						
WC26NS500 : Grease									
Oil & Grease	mg/L	<5	<5						
Date of Performance	DD/MM/YY	17/12/18	17/12/18						
WC44NS : Determination of T	otal, Fixed & V	olatile Suspended So	olids						
Total Suspended Solids	mg/L	<2	15						
Date of Performance	DD/MM/YY	17/12/18	17/12/18						
MICRO									



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Client Sample ID		Point 1	Point 2					
Sampled Date		12/12/2018 07:30:00 AM	12/12/2018 07:30:00 AM					
Sample Number		L18054862	L18054863					
MICRO								
MI01MUG : Faecal Coliform	and/or E. coli							
E.coli	CFU/100mL	-	3					
Faecal Coliform	CFU/100mL	-	3					
Date of Performance	D/M/Y H:M		13/12/18 16:33					
NUTRIENTS								
NU102 : Nitrogen & Phospho	orus							
Total Nitrogen	mg/L	1.62	2.70					
Total Phosphorus	mg/L	0.780	2.01					
Date of Performance	DD/MM/YY	14/12/18	14/12/18					

### **COMMENTS**

Sample ID Comment Level Method Test Comment

L18054863 Method MI01MUG - Sample analysed outside recommended holding time of 24Hrs

<u>Analysis Requirements</u>

MI01MUG Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated

otherwise.

<sup>&</sup>quot;-" = 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	e Control Negative Control		uplicate2	Precision			
	Acceptance Criteria	Acceptance Criteria			Acceptance Criteria			
MI01MUG [Membrane Filtration]E.coli								
<1 CFU/100mL <1	Accepted	Accepted						
MI01MUG [Membrane Filtration]Faecal Coliform								
<1 CFU/100mL <1	Accepted	Accepted	2	1	Not Calculated			

LOQ	Blank	Control	Spike	Duplicate1 I	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.91	96 % Recovery	0.24	0.24	В
		0.9 - 1.1 mg/L	80 - 120 % Recovery			0 - 0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.052	94 % Recovery	<0.002	<0.002	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
WC12MET Conductivity (mS/	m)					
<0.1 mS/m	F	141.3	E	91.4	91.4	0.00 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5						
<2 mg/L	<2	200	E	110	110	0.00 %
		139 - 257 mg/L				0 - 20 %



LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria Acceptance Criteria			Acceptance Criteria
WC26NS500 Oil & Grease						
<5 mg/L	<5 mg/L <5		88 E			
		85.1 - 101.5 mg/L				
WC44NS Total Suspended So	olids					
<2 mg/L	<2	50	E	1000	990	1.01 %
		42.5 - 57.5 mg/L				0 - 20 %

#### Extra Note:

F: Blank is not applicable for this analyte

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

E: Spike is not applicable for this analyte

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