Analytical Report 224256



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CONTENTS

1. Sydney Water Approved Signatory

2. Sample Summary

3. Analytical results

Issue Date: 29/05/2020

4. Comments

5. Laboratory QC results

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> <u>Authorised</u>	<u>Description</u>
Point 1	L20042437	1	19/05/2020	20/05/2020	28/05/2020	Polisher
Point 2	L20042438	1	19/05/2020	20/05/2020	28/05/2020	Turkeys
Splitter Box 1	L20042439	1	19/05/2020	20/05/2020	27/05/2020	
Splitter Box 2	L20042440	1	19/05/2020	20/05/2020	27/05/2020	
S Inlet	L20042441	1	19/05/2020	20/05/2020	27/05/2020	

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

Client Sample ID		Point 1	Point 2	Splitter Box 1	Splitter Box 2	S Inlet		
Sampled Date		19/05/2020 07:50:00 AM	19/05/2020 08:00:00 AM	19/05/2020 07:40:00 AM	19/05/2020 07:40:00 AM	19/05/2020 07:40:00 AM		
Sample Number		L20042437	L20042438	L20042439	L20042440	L20042441		
CHEMISTRY		•			-			
WC12MET : Conductivity								
		r		г г			T	1
Conductivity (mS/m)	mS/m	134.8	149.3	-	-	-		
Date of Performance	DD/MM/YY	20/05/20	20/05/20					
WC17NS : Biological oxygen	demand							
		ı		ı			1	1
BOD5	mg/L	3	3	250	15	260		
Date of Performance	DD/MM/YY	22/05/20	22/05/20	22/05/20	22/05/20	22/05/20		
WC26NS500 : Grease								
				<u> </u>			Т	1
Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	22/05/20	22/05/20					
WC44NS : Determination of	Total, Fixed & V	olatile Suspended S	olids					
	1			<u> </u>			Г	1
Total Suspended Solids	mg/L	18	8	-	-	-		
Date of Performance	DD/MM/YY	22/05/20	22/05/20					
MICRO								

[&]quot;-" = Not required or refer to Laboratory comment



Client Sample ID		Point 1	Point 2	Splitter Box 1	Splitter Box 2	S Inlet		1
Sampled Date		19/05/2020 07:50:00 AM	19/05/2020 08:00:00 AM	19/05/2020 07:40:00 AM	19/05/2020 07:40:00 AM	19/05/2020 07:40:00 AM		
Sample Number		L20042437	L20042438	L20042439	L20042440	L20042441		
MICRO	•	•			•			
MI01MUG : Faecal Coliform ar	nd/or E. coli							
E.coli	CFU/100mL	-	21	-	-	-		
Faecal Coliform	CFU/100mL	-	21	-	-	-		
Date of Performance	D/M/Y H:M		20/05/20 15:45					
NUTRIENTS								
NU102 : Nitrogen & Phosphoru	us							
Total Nitrogen	mg/L	6.47	4.62	-	-	-		
Total Phosphorus	mg/L	1.15	0.720	-	-	-		
Date of Performance	DD/MM/YY	21/05/20	21/05/20					

COMMENTS

Sample ID Comment Level Method Test Comment

L20042438 Method MI01MUG - Result confirmed. 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.

[&]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	Negative Control	Duplicate1	Duplicate2	Precision	
			Acceptance Criteria	Acceptance Criteria			Acceptance Criteria	
MI01MUG	MI01MUG [Membrane Filtration]E.coli							
<1	1 CFU/100mL	<1	Accepted	Accepted	21	17	Not Calculated	
MI01MUG [Membrane Filtration]Faecal Coliform								
<1	1 CFU/100mL	<1	Accepted	Accepted	21	17	Not Calculated	

LOQ	LOQ Blank		Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.90	96 % Recovery	0.27	0.27	В
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.047	98 % Recovery	0.003	0.003	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
WC12MET Conductivity (mS/	m)					
<0.1 mS/m	F	141.2	E			
		139.3 - 143.3 mS/m				
WC17NS BOD5						
<2 mg/L	<2	170	E	250	290	14.81 %
		139 - 257 mg/L				0 - 20 %



LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD	
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria	
WC26NS500 Oil & Grease							
<5 mg/L	<5	95 E		<5	<5	В	
		85.1 - 101.5 mg/L				0 - 0 %	
WC44NS Total Suspended So	WC44NS Total Suspended Solids						
<2 mg/L	<2	50	E	30	33	9.52 %	
		42.5 - 57.5 mg/L				0 - 50 %	

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

DUPLICATE

Oil & Grease

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