Analytical Report 229379

Issued By: Sydney Water Laboratory Services



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CONTENTS

1. Sydney Water Approved Signatory

2. Sample Summary

3. Analytical results

Issue Date: 27/08/2020

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> <u>Sampled</u>	<u>Date</u> <u>Received</u>	<u>Date</u> <u>Authorised</u>	<u>Description</u>
Point 1	L20068585	1	18/08/2020	19/08/2020	26/08/2020	Polisher
Point 2	L20068586	1	18/08/2020	19/08/2020	26/08/2020	Turkeys
Spitter Box 1	L20068587	1	18/08/2020	19/08/2020	26/08/2020	
Spitter Box 2	L20068588	1	18/08/2020	19/08/2020	26/08/2020	
S Inlet	L20068589	1	18/08/2020	19/08/2020	26/08/2020	

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

		l I							
Client Sample ID		Point 1	Point 2	Spitter Box 1	Spitter Box 2	S Inlet			
Sampled Date		18/08/2020 07:30:00 AM	18/08/2020 07:50:00 AM	18/08/2020 07:40:00 AM	18/08/2020 07:40:00 AM	18/08/2020 07:40:00 AM			
Sample Number		L20068585	L20068586	L20068587	L20068588	L20068589			
CHEMISTRY									
WC12MET : Conductivity									
	<u> </u>	1						1	1
Conductivity (mS/m)	mS/m	92.6	99.9	-	-	-			
Date of Performance	DD/MM/YY	19/08/20	19/08/20						
WC17NS : Biological oxygen demand									
	1	ı		ı				ı	1
BOD5	mg/L	2	<2	550	7	330			
Date of Performance	DD/MM/YY	20/08/20	20/08/20	20/08/20	20/08/20	20/08/20			
WC26NS500 : Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	24/08/20	24/08/20						
WC44NS : Determination of T	otal, Fixed & V	olatile Suspended So	olids						
	_			· · · · · · · · · · · · · · · · · · ·				1	
Total Suspended Solids	mg/L	10	2	-	-	-			
Date of Performance	DD/MM/YY	20/08/20	20/08/20						
MICRO	MICRO								

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



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Client Sample ID		Point 1	Point 2	Spitter Box 1	Spitter Box 2	S Inlet			
Sampled Date		18/08/2020 07:30:00 AM	18/08/2020 07:50:00 AM	18/08/2020 07:40:00 AM	18/08/2020 07:40:00 AM	18/08/2020 07:40:00 AM			
Sample Number		L20068585	L20068586	L20068587	L20068588	L20068589			
MICRO	MICRO								
MI01MUG : Faecal Coliform an	nd/or E. coli								
E.coli	CFU/100mL	-	5	-	-	-			
Faecal Coliform	CFU/100mL	-	5	-	-	-			
Date of Performance	D/M/Y H:M		19/08/20 14:59						
NUTRIENTS									
NU102 : Nitrogen & Phosphoru	IS								
Total Nitrogen	mg/L	15.0	9.93	-	-	-			
Total Phosphorus	mg/L	2.49	1.45	-	-	-			
Date of Performance	DD/MM/YY	21/08/20	21/08/20						

COMMENTS

Sample ID Comment Level Method Test Comment

L20068586 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 [Membrane Filtration]E.coli								
<1 CFU/100mL	<1	Accepted	Accepted	5	3	Not Calculated		
MI01MUG [Membrane Filtration]Faecal Coliform								
<1 CFU/100mL	<1	Accepted	Accepted	5	3	Not Calculated		

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.95	102 % Recovery	0.32	0.32	В
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.049	98 % Recovery	0.006	0.007	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
WC12MET Conductivity (mS/	m)					
<0.1 mS/m	F	140.7	E	71.7	71.4	0.42 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5						
<2 mg/L	<2	200	E	330	360	8.70 %
		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	86 E		37	38	В
		85.1 - 101.5 mg/L	85.1 - 101.5 mg/L			0 - 0 %
WC44NS Total Suspended So	olids					
<2 mg/L	<2	55	E	150	170	
		42.5 - 57.5 mg/L				

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