Analytical Report 215592

Sydney ŴĂŤ~R

Laboratory Services

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Issued By : Sydney Water Laboratory Services

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Customer:	Cobar Shire Council
Customer ID:	ZCSC

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Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Analyst

Cyrell Cascabel, Nutrients Analyst

Tamara Taylor, Microbiology Analyst Lianying Zheng, Nutrients Senior analyst

ΝΔΤΔ WORLD RECOGNISED

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> Number	<u>Sampling</u> Procedure	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	<u>Date</u> Authorised	Description
POINT 1	L19101974	1	17/12/2019	19/12/2019	31/12/2019	POLISHER
POINT 2	L19101975	1	17/12/2019	19/12/2019	28/12/2019	TURKEYS
INLET 1	L19101976	1	17/12/2019	19/12/2019	27/12/2019	
SPLITTER BOX 2	L19101977	1	17/12/2019	19/12/2019	27/12/2019	POINT 2
SPLITTER BOX 3	L19101978	1	17/12/2019	19/12/2019	27/12/2019	POINT 3

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	INLET 1	SPLITTER BOX 2	SPLITTER BOX 3				
Sampled Date		17/12/2019 08:00:00 AM	17/12/2019 08:10:00 AM	17/12/2019 08:15:00 AM	17/12/2019 08:15:00 AM	17/12/2019 08:15:00 AM				
Sample Number		L19101974	L19101975	L19101976	L19101977	L19101978				
CHEMISTRY	CHEMISTRY									
WC12MET : Conductivity										
Conductivity (mS/m)	mS/m	124.5	139.4	-	-	-				
Date of Performance	DD/MM/YY	19/12/19	19/12/19							
WC17NS : Biological oxygen	WC17NS : Biological oxygen demand									
BOD5	mg/L	3	6	180	150	37				
Date of Performance	DD/MM/YY	20/12/19	20/12/19	20/12/19	20/12/19	20/12/19				
WC44NS : Determination of	Fotal, Fixed & V	olatile Suspended S	olids							
Total Suspended Solids	mg/L	31	29	-	-	-				
Date of Performance	DD/MM/YY	20/12/19	20/12/19							
MICRO										
MI01MUG : Faecal Coliform a	and/or E. coli									
E.coli	CFU/100mL	-	<1	-	-	-				
Faecal Coliform	CFU/100mL	-	<1	-	-	-				

"-" = Not required or refer to Laboratory comment



Client Sample ID		POINT 1	POINT 2	INLET 1	SPLITTER BOX 2	SPLITTER BOX 3			
Sampled Date		17/12/2019 08:00:00 AM	17/12/2019 08:10:00 AM	17/12/2019 08:15:00 AM	17/12/2019 08:15:00 AM	17/12/2019 08:15:00 AM			
Sample Number		L19101974	L19101975	L19101976	L19101977	L19101978			
MICRO									
MI01MUG : Faecal Coliform an	nd/or E. coli(C	ontinued)							
									1
Date of Performance	D/M/Y H:M		19/12/19 13:14						
NUTRIENTS	NUTRIENTS								
NU102 : Nitrogen & Phosphoru	IS								
									1
Total Nitrogen	mg/L	2.65	3.64	-	-	-			
Total Phosphorus	mg/L	0.650	0.620	-	-	-			
Date of Performance	DD/MM/YY	23/12/19	23/12/19						

Comment

COMMENTS

Sample ID L19101975

Comment Level Method MI01MUG

Test

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

Method



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 F	iltration]E.coli					
<1	CFU/100mL	<1	Accepted	Accepted	<1	<1	Not Calculated
MI01MUG	[Membrane F	iltration]Faecal Coliform					
<1	CFU/100mL	<1	Accepted	Accepted	<1	<1	Not Calculated

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.93	105 % Recovery	0.43	0.43	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	0.022	0.022	0.00 %
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 50 %
WC12MET Conductivity (mS	/m)					
<0.1 mS/m	F	141.6	E	154.4	154.6	0.13 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5			·	·		
<2 mg/L	<2	170	E			
		139 - 257 mg/L				

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LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
WC44NS Total Suspended S	olids					
<2 mg/L	<2	50	E	660	610	7.87 %
		42.5 - 57.5 mg/L				0 - 20 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte