Analytical Report 226244

Sydney WAT ~R

Laboratory Services

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Issued By : Sydney Water Laboratory Services

Attention:	Victor Papierniak-Wojtowicz
Customer:	Cobar Shire Council
Customer ID:	ZCSC

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Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Analyst

Renuka Kasthuriarachchi, Nutrients Analyst

Xin Ren, Microbiology Analyst



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> Sampled	<u>Date</u> Received	<u>Date</u> Authorised	Description
Point 1	L20051970	1	23/06/2020	24/06/2020	03/07/2020	Polisher
Point 2	L20051971	1	23/06/2020	24/06/2020	03/07/2020	Turkeys
Splitter Box 1	L20051972	1	23/06/2020	24/06/2020	30/06/2020	
Splitter Box 2	L20051973	1	23/06/2020	24/06/2020	30/06/2020	
Inlet	L20051974	1	23/06/2020	24/06/2020	30/06/2020	

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	Inlet			
Sampled Date		23/06/2020 07:40:00 AM	23/06/2020 07:50:00 AM	23/06/2020 08:00:00 AM	23/06/2020 08:00:00 AM	23/06/2020 08:00:00 AM			
Sample Number		L20051970	L20051971	L20051972	L20051973	L20051974			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	110.1	124.0	_	-	-			
			124.0	_					
Date of Performance	DD/MM/YY	24/06/20	24/06/20						
WC17NS : Biological oxygen demand									
		<2	<2	260	16	99		[I
BOD5	mg/L	<2	<2	260	10	99			<u> </u>
Date of Performance	DD/MM/YY	25/06/20	25/06/20	25/06/20	25/06/20	25/06/20			
WC26NS500 : Grease	•								
	1								
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	27/06/20	27/06/20						
WC44NS : Determination of T	otal, Fixed & V	olatile Suspended S	olids						
	1								
Total Suspended Solids	mg/L	10	4	-	-	-			
Date of Performance	DD/MM/YY	26/06/20	26/06/20						
MICRO	AICRO								
" " - Not required or refer t									

"-" = Not required or refer to Laboratory comment



									i
Client Sample ID		Point 1	Point 2	Splitter Box 1	Splitter Box 2	Inlet			
Sampled Date		23/06/2020	23/06/2020	23/06/2020	23/06/2020	23/06/2020			
		07:40:00 AM	07:50:00 AM	08:00:00 AM	08:00:00 AM	08:00:00 AM			
Sample Number		L20051970	L20051971	L20051972	L20051973	L20051974			
MICRO									
MI01MUG : Faecal Col	iform and/or E. coli								
E.coli	CFU/100mL		8	-	_	-			
			-						
Faecal Coliform	CFU/100mL	-	8	-	-	-			
Date of Performance	D/M/Y H:M		24/06/20 15:05						
NUTRIENTS									
NU102 : Nitrogen & Ph	osphorus								
T (1519		7.85	7.69						T
Total Nitrogen	mg/L	C0.1	7.09	-	-	-			
Total Phosphorus	mg/L	1.10	0.780	-	-	-			
Date of Performance	DD/MM/YY	26/06/20	26/06/20						
COMMENTS									
	omment Level	<u>Method</u>	<u>Test</u>	Comment					
	Aethod	MI01MUG	-		med. Sample analys	sed outside recomm	ended holding time	e of 24Hrs.	
Analysia		vo monto					-		
<u>Analysis</u>	<u>Analysis Requi</u>	rements							

MI01MUG 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	Negative Control	Duplicate1 Duplicate2		Precision		
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria		
MI01MUG [Membrane Filtration]E.coli								
<1 CFU/100mL	<1	Accepted	Accepted	8	5	46.15 %		
MI01MUG [Membrane Filtration]Faecal Coliform								
<1 CFU/100mL	<1	Accepted	Accepted	8	5	46.15 %		

LOQ	LOQ Blank		Spike	Duplicate1 [Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.91	102 % Recovery	0.30	0.29	В
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.049	94 % 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	140.7	E	121.8	122.2	0.33 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5			•			
<2 mg/L	<2	200	E			
		139 - 257 mg/L				

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LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria Acceptance Criteria		Acceptance Criteria	
WC26NS500 Oil & Grease						
<5 mg/L	<5	91	E	<5	<5	В
		85.1 - 101.5 mg/L				0 - 0 %
WC44NS Total Suspended So	olids					
<2 mg/L	<2	52	E	290	310	6.67 %
		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

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