

# Corporate Accreditation No 63 Accredited for compliance with ISO/IEC 17025 - Testing



**Delivery Address:** Sydney Water Corporation

51 Hermitage Rd West Ryde NSW 2114

**Telephone:** (02) 9800 6935

Email: analyticalservices@sydneywater.com.au

victor.papierniak@cobar.nsw.gov.au

Analytical Report 246239

Issue Date: 12/06/2021

**Issued By:** Sydney Water Laboratory Services

Attention: Victor Papierniak-Wojtowicz

Customer: Cobar Shire Council

Customer ID: ZCSC

Greta Haddad, Nutrients Laboratory Supervisor

Address: PO Box 223, Cobar NSW 2835

**Telephone:** 6836 5800

Email:

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### **Sydney Water Approved Signatory**

Jeya Gajendran, Clean & Waste Water Analyst Ricardo Quintana, Clean & Waste Water 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.



## **SAMPLE SUMMARY**

<u>Client</u> Sample ID	Sample Number	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 POLISHER	L21051441	1	01/06/2021	02/06/2021	11/06/2021	
POINT 2 TURKEYS	L21051442	1	01/06/2021	02/06/2021	11/06/2021	
SPLITTER BOX 1	L21051443	1	01/06/2021	02/06/2021	11/06/2021	
SPLITTER BOX 2	L21051444	1	01/06/2021	02/06/2021	11/06/2021	
INLET	L21051445	1	01/06/2021	02/06/2021	11/06/2021	

## 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 POLISHER	POINT 2 TURKEYS	SPLITTER BOX	SPLITTER BOX 2	INLET			
Sampled Date		01/06/2021 07:40:00 AM	01/06/2021 07:50:00 AM	01/06/2021 07:30:00 AM	01/06/2021 07:30:00 AM	01/06/2021 08:00:00 AM			
Sample Number		L21051441	L21051442	L21051443	L21051444	L21051445			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	84.5	85.9	-	-	-			
Date of Performance	DD/MM/YY	02/06/21	02/06/21						
WC17NS : Biological oxygen d	lemand								
BOD5	mg/L	<2	3	250	22	200			
Date of Performance	DD/MM/YY	04/06/21	04/06/21	04/06/21	04/06/21	04/06/21			
WC26NS500 : Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	02/06/21	02/06/21						
WC44NS : Determination of Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	8	7	-	-	-			
Date of Performance	DD/MM/YY	03/06/21	03/06/21						
MICRO									

<sup>&</sup>quot;-" = Not required or refer to Laboratory comment



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	POINT 1	POINT 2 TURKEYS	SPLITTER BOX	SPLITTER BOX	INLET			
	01/06/2021 07:40:00 AM	01/06/2021 07:50:00 AM	01/06/2021 07:30:00 AM	01/06/2021 07:30:00 AM	01/06/2021 08:00:00 AM			
	L21051441	L21051442	L21051443	L21051444	L21051445			
MICRO								
E. coli by Me	mbrane Filtration							
CFU/100mL	-	4	-	-	-			
CFU/100mL	-	6	-	-	-			
D/M/Y H:M		02/06/21 14:31						
NUTRIENTS								
S								
mg/L	9.31	7.75	-	-	-			
mg/L	1.55	1.27	-	-	-			
DD/MM/YY	03/06/21	03/06/21						
	CFU/100mL  CFU/100mL  D/M/Y H:M  s  mg/L  mg/L	POLISHER 01/06/2021 07:40:00 AM L21051441  E. coli by Membrane Filtration  CFU/100mL -  CFU/100mL -  D/M/Y H:M  s  mg/L 9.31  mg/L 1.55	POLISHER   TURKEYS   01/06/2021   07:40:00 AM   D7:50:00 AM   L21051441   L21051442	POLISHER   TURKEYS   1   01/06/2021   01/06/2021   01/06/2021   07:40:00 AM   L21051441   L21051442   L21051443   L21051443   L21051442   L21051443	POLISHER   TURKEYS   1   2   01/06/2021   01/06/2021   01/06/2021   07:40:00 AM   07:50:00 AM   07:30:00 AM   L21051441   L21051442   L21051443   L21051444      E. coli by Membrane Filtration	POLISHER   TURKEYS   1   2   01/06/2021   01/06/2021   01/06/2021   01/06/2021   01/06/2021   01/06/2021   07:40:00 AM   07:30:00 AM   07:30:00 AM   L21051441   L21051442   L21051443   L21051444   L21051445	POLISHER   TURKEYS   1   2   01/06/2021	POLISHER   TURKEYS   1   2   01/06/2021   01/06/2021   01/06/2021   01/06/2021   01/06/2021   07:40:00 AM   07:50:00 AM   07:30:00 AM   L21051441   L21051442   L21051443   L21051444   L21051444   L21051445   L21051445

## **COMMENTS**

Sample IDComment LevelMethodTestCommentL21051442MethodMI01-Result confirmed. Sample analysed outside recommended holding time of 24Hrs.

Analysis Requirements

MI01 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	Negative Control	Duplicate1	Duplicate2	Precision	
			Acceptance Criteria	Acceptance Criteria			Acceptance Criteria	
MI01	[Membrane Filtration]E.d	coli						
	<1 CFU/100mL	<1	Accepted	Accepted	4	2	Accepted	
MI01	MI01 [Membrane Filtration]Faecal Coliform							
	<1 CFU/100mL	<1	Accepted	Accepted	6	4	Accepted	

LOQ	LOQ Blank		Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.94	98 % Recovery	71.5	74.4	3.98 %
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 20 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.052	102 % Recovery	0.019	0.021	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
WC12MET Conductivity (mS/r	m)					
<0.1 mS/m	F	140.6	E	136.5	136.8	0.22 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5				•		
<2 mg/L	<2	170	E	350	340	2.90 %
		139 - 257 mg/L				0 - 20 %



LOQ	Blank	Control	Control Spike		Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria Acceptance Criteria			Acceptance Criteria
WC26NS500 Oil & Grease						
<5 mg/L	<5	88	E			
		85.1 - 101.5 mg/L				
WC44NS Total Suspended So	olids					
<2 mg/L	<2	51	E	290	290	0.00 %
		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