



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



Analytical Report 264811

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CONTENTS

1. Sydney Water Approved Signatory
2. Sample Summary
3. Analytical results
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.

SAMPLE SUMMARY

<u>Client</u> <u>Sample ID</u>	<u>Sample</u> <u>Number</u>	<u>Sampling</u> <u>Procedure</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	<u>Date</u> <u>Authorised</u>	<u>Description</u>
POINT 2 TURKEYS	L22040240	1	16/05/2022	17/05/2022	27/05/2022	COBAR STP (WASTEWATER)

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 2 TURKEYS							
Sampled Date		16/05/2022 07:50:00 AM							
Sample Number		L22040240							
CHEMISTRY									
WC12 : Conductivity & Salinity									
Salinity	ppt	0.3							
Date of Performance	DD/MM/YY	18/05/22							
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	62.1							
Date of Performance	DD/MM/YY	17/05/22							
WC17NS : Biochemical oxygen demand									
BOD5	mg/L	<2							
Date of Performance	DD/MM/YY	18/05/22							
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	<5							
Date of Performance	DD/MM/YY	18/05/22							
WC44NS : Total, Fixed & Volatile Suspended Solids									

Client Sample ID		POINT 2 TURKEYS							
Sampled Date		16/05/2022 07:50:00 AM							
Sample Number		L22040240							
CHEMISTRY									
WC44NS : Total, Fixed & Volatile Suspended Solids(Continued)									
Total Suspended Solids	mg/L	3							
Date of Performance	DD/MM/YY	18/05/22							
METALS									
TM70SAR : Metals by Inductively Coupled Plasma Atomic Emission Spectrometry									
SAR*	RATIO	3.3							
TM70SDT : Single digestion for Metals									
Total Digestion	DONE	Done							
Date of Performance	DD/MM/YY	18/05/22							
TM70TW : Metals by ICPAES.									
Total Calcium	mg/L	26.9							
Total Magnesium	mg/L	9.08							
Total Sodium	mg/L	77.8							

* Indicates NATA accreditation does not cover the performance of this service

Client Sample ID	POINT 2 TURKEYS								
Sampled Date	16/05/2022 07:50:00 AM								
Sample Number	L22040240								
METALS									
Date of Performance	DD/MM/YY	18/05/22							
MICRO									
MI01 : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	~10							
Faecal Coliform	CFU/100mL	~14							
Date of Performance	D/M/Y H:M	17/05/22 14:01							
NUTRIENTS									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	4.50							
Total Phosphorus	mg/L	3.74							
Date of Performance	DD/MM/YY	19/05/22							

(~): Counts of target colonies are outside the optimal precision range.

COMMENTS

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L22040240	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

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Analysis

MI01

WC12

MI01

Analysis Requirements

Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

Conductivity measured @ 25 degrees Celsius

Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

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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

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LOQ	Blank	Positive Control <i>Acceptance Criteria</i>	Negative Control <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	Precision <i>Acceptance Criteria</i>
MI01 [Membrane Filtration]E.coli						
<1 CFU/100mL	<1	Accepted	Accepted	~10	~4	Not Calculated
MI01 [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	~14	~5	Not Calculated

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.93 <i>0.88 - 1.12 mg/L</i>	93 % Recovery <i>80 - 120 % Recovery</i>	0.42	0.42	B <i>0 - 0 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.048 <i>0.045 - 0.055 mg/L</i>	89 % Recovery <i>80 - 120 % Recovery</i>	0.011	0.012	B <i>0 - 0 %</i>
TM70TW Total Calcium						
<0.01 mg/L	<0.01	50.7 <i>40.0 - 60.0 mg/L</i>	97 % Recovery <i>80 - 120 % Recovery</i>	29.8	29.9	0.34 % <i>0 - 20 %</i>
TM70TW Total Magnesium						
<0.02 mg/L	<0.02	50.7 <i>40.0 - 60.0 mg/L</i>	100 % Recovery <i>80 - 120 % Recovery</i>	3.15	3.15	0.00 % <i>0 - 20 %</i>

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LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
TM70TW Total Sodium						
<0.05 mg/L	<0.05	50.8 40.0 - 60.0 mg/L	97 % Recovery 80 - 120 % Recovery	37.6	38.0	1.06 % 0 - 20 %
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.3 139.3 - 143.3 mS/m	E	16.9	16.9	0.00 % 0 - 20 %
WC12 Salinity						
<0.1 ppt	F	0.7 0.6 - 0.8 ppt	E	0.3	0.3	B 0 - 0 %
WC17NS BOD5						
<2 mg/L	<2	190 139 - 257 mg/L	E	140	150	6.90 % 0 - 20 %
WC26NS500 Oil & Grease						
<5 mg/L	<5	88 85.1 - 101.5 mg/L	E	33	31	B 0 - 0 %
WC44NS Total Suspended Solids						
<2 mg/L	<2	48 42.5 - 57.5 mg/L	E	200	210	4.88 % 0 - 20 %

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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 Salinity 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

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