



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



Analytical Report 264612

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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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Jeya Gajendran, Clean & Waste Water Analyst

Linda Gao, Metals 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 Sample ID</u>	<u>Sample Number</u>	<u>Sampling Procedure</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Date Authorised</u>	<u>Description</u>
POLISHER PT 1	L22038402	1	09/05/2022	10/05/2022	23/05/2022	COBAR STP (WASTE WATER)
SPLITTER BOX 1	L22038404	1	09/05/2022	10/05/2022	17/05/2022	COBAR STP (WASTE WATER)
SPLITTER BOX 2	L22038405	1	09/05/2022	10/05/2022	17/05/2022	COBAR STP (WASTE WATER)
INLET	L22038406	1	09/05/2022	10/05/2022	19/05/2022	COBAR STP (WASTE WATER)

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	POLISHER PT 1	SPLITTER BOX 1	SPLITTER BOX 2	INLET				
Sampled Date	09/05/2022 07:35:00 AM	09/05/2022 07:32:00 AM	09/05/2022 07:34:00 AM	09/05/2022 07:30:00 AM				
Sample Number	L22038402	L22038404	L22038405	L22038406				
CHEMISTRY								
WC12 : Conductivity & Salinity								
Salinity	ppt	-	-	-	0.4			
Date of Performance	DD/MM/YY				11/05/22			
WC12MET : Conductivity								
Conductivity (mS/m)	mS/m	61.9	-	-	-			
Date of Performance	DD/MM/YY	11/05/22						
WC17NS : Biochemical oxygen demand								
BOD5	mg/L	3	160	9	99			
Date of Performance	DD/MM/YY	11/05/22	11/05/22	11/05/22	11/05/22			
WC26NS500 : Oil & Grease								
Oil & Grease	mg/L	<5	-	-	-			
Date of Performance	DD/MM/YY	12/05/22						
WC44NS : Total, Fixed & Volatile Suspended Solids								

"-" = Not required or refer to Laboratory comment

Client Sample ID	POLISHER PT 1	SPLITTER BOX 1	SPLITTER BOX 2	INLET				
Sampled Date	09/05/2022 07:35:00 AM	09/05/2022 07:32:00 AM	09/05/2022 07:34:00 AM	09/05/2022 07:30:00 AM				
Sample Number	L22038402	L22038404	L22038405	L22038406				

CHEMISTRY

WC44NS : Total, Fixed & Volatile Suspended Solids(Continued)

Total Suspended Solids	mg/L	12	-	-	-			
Date of Performance	DD/MM/YY	16/05/22						

METALS

TM70SAR : Metals by Inductively Coupled Plasma Atomic Emission Spectrometry

SAR*	RATIO	-	-	-	2.7			
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TM70SDT : Single digestion for Metals

Total Digestion	DONE	-	-	-	Done			
Date of Performance	DD/MM/YY				12/05/22			

TM70TW : Metals by ICPAES.

Total Calcium	mg/L	-	-	-	25.3			
Total Magnesium	mg/L	-	-	-	8.34			
Total Sodium	mg/L	-	-	-	62.3			

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

"-" = Not required or refer to Laboratory comment

Client Sample ID	POLISHER PT 1	SPLITTER BOX 1	SPLITTER BOX 2	INLET				
Sampled Date	09/05/2022 07:35:00 AM	09/05/2022 07:32:00 AM	09/05/2022 07:34:00 AM	09/05/2022 07:30:00 AM				
Sample Number	L22038402	L22038404	L22038405	L22038406				
METALS								
Date of Performance	DD/MM/YY			12/05/22				
NUTRIENTS								
NU102 : Total Nitrogen & Total Phosphorus								
Total Nitrogen	mg/L	6.04	-	-	-			
Total Phosphorus	mg/L	4.40	-	-	-			
Date of Performance	DD/MM/YY	12/05/22						

COMMENTS

Analysis

WC12

Analysis Requirements

Conductivity measured @ 25 degrees Celsius

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"-" = 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

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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	0.96 <i>0.88 - 1.12 mg/L</i>	98 % Recovery <i>80 - 120 % Recovery</i>	2.01	1.99	1.00 % <i>0 - 20 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.051 <i>0.045 - 0.055 mg/L</i>	94 % Recovery <i>80 - 120 % Recovery</i>	<0.002	<0.002	B <i>0 - 0 %</i>
TM70TW Total Calcium						
<0.01 mg/L	<0.01	50.2 <i>40.0 - 60.0 mg/L</i>	97 % Recovery <i>80 - 120 % Recovery</i>	29.1	29.3	0.68 % <i>0 - 20 %</i>
TM70TW Total Magnesium						
<0.02 mg/L	<0.02	49.9 <i>40.0 - 60.0 mg/L</i>	97 % Recovery <i>80 - 120 % Recovery</i>	17.7	17.8	0.56 % <i>0 - 20 %</i>
TM70TW Total Sodium						
<0.05 mg/L	<0.05	50.9 <i>40.0 - 60.0 mg/L</i>	86 % Recovery <i>80 - 120 % Recovery</i>	146.0	147.0	0.68 % <i>0 - 20 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	140.8 <i>139.3 - 143.3 mS/m</i>	E	61.9	62.0	0.16 % <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>
WC12 Salinity						
<0.1 ppt	F	0.7 <i>0.6 - 0.8 ppt</i>	E	0.4	0.4	B <i>0 - 0 %</i>
WC17NS BOD5						
<2 mg/L	<2	180 <i>139 - 257 mg/L</i>	E	180	170	5.71 % <i>0 - 20 %</i>
WC26NS500 Oil & Grease						
<5 mg/L	<5	98 <i>85.1 - 101.5 mg/L</i>	E	<5	<5	B <i>0 - 0 %</i>
WC44NS Total Suspended Solids						
<2 mg/L	<2	50 <i>42.5 - 57.5 mg/L</i>	E	570	570	0.00 % <i>0 - 20 %</i>

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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