

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



Analytic	OGNISED	281336	Delivery A		Sydney Water Corporation 51 Hermitage Rd West Ryde NSW 2114
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Sydney Water Approved Signatory

Dwijal Dave, Clean & Waste Water Analyst	Jouliet Ashak, Microbiology Analyst	Lianying Zheng, Nutrients Senior 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	<u>Sample</u> Number	<u>Sampling</u> Procedure	<u>Date</u> Sampled	Date Received	Date Authorised	Description
POINT 1 POLISHER	L23022786	1	13/03/2023	14/03/2023	22/03/2023	COBAR STP (WASTEWATER)
POINT 2 TURKEYS	L23022787	1	13/03/2023	14/03/2023	22/03/2023	COBAR STP (WASTEWATER)
SPLITTER BOX 1	L23022788	1	13/03/2023	14/03/2023	21/03/2023	COBAR STP (WASTEWATER)
SPLITTER BOX 2	L23022789	1	13/03/2023	14/03/2023	21/03/2023	COBAR STP (WASTEWATER)
INLET	L23022790	1	13/03/2023	14/03/2023	21/03/2023	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

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Client Sample ID		POINT 1 POLISHER	POINT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET		
Sampled Date		13/03/2023 08:08:00 AM	13/03/2023 08:25:00 AM	13/03/2023 07:55:00 AM	13/03/2023 07:58:00 AM	13/03/2023 08:00:00 AM		
Sample Number		L23022786	L23022787	L23022788	L23022789	L23022790		
CHEMISTRY		• • • •		•				
WC12MET : Conductivity								
	mS/m	457.0					 [
Conductivity (mS/m)	mS/m	157.3	143.3	-	-	-		
Date of Performance	DD/MM/YY	14/03/23	14/03/23					
WC17NS : Biochemical oxyg	en demand							
BOD5	mg/L	3		400	21	110		
BOD2	mg/∟	3	<2	100	21	110		
Date of Performance	DD/MM/YY	15/03/23	15/03/23	15/03/23	15/03/23	15/03/23		
WC26NS500 : Oil & Grease								
Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	17/03/23	17/03/23					
WC44NS : Total, Fixed & Vol		d Solids						
-								1
Total Suspended Solids	mg/L	13	10	-	-	-		
Date of Performance	DD/MM/YY	17/03/23	17/03/23					
								• · · · · · · · · · · · · · · · · · · ·
"-" = Not required or refer	4							

"-" = Not required or refer to Laboratory comment



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Client Sample ID		POINT 1 POLISHER	POINT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET		
Sampled Date		13/03/2023 08:08:00 AM	13/03/2023 08:25:00 AM	13/03/2023 07:55:00 AM	13/03/2023 07:58:00 AM	13/03/2023 08:00:00 AM		
Sample Number		L23022786	L23022787	L23022788	L23022789	L23022790		
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		14/03/23 15:19					
NUTRIENTS								
NU102 : Total Nitrogen & Total	Phosphorus							
 Total Nitrogen	mg/L	2.64	1.95	-	-	-		
Total Phosphorus	mg/L	0.840	1.24	-	-	-		
Date of Performance	DD/MM/YY	16/03/23	16/03/23					

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

COMMENTS

Sample ID L23022787 Comment Level Method <u>Method</u> MI01 <u>Test</u>

Comment

Result confirmed. Sample processed outside of holding time, result may be affected.

<u>Analysis</u>

Analysis Requirements

"-" = Not required or refer to Laboratory comment



MI01

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
MI01	[Membrane Filtration]	E.coli					
	<1 CFU/100mL	<1	Accepted	Accepted	~10	~9	Not Calculated
MI01	[Membrane Filtration]	Faecal Coliform					
	<1 CFU/100mL	<1	Accepted	Accepted	~14	~12	Not Calculated

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.96	80 % Recovery	0.89	0.88	1.13 %
		0.88 - 1.12 mg/L	80.0 - 120.0 % Recovery			0.0 - 50.0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.047	98 % Recovery	0.037	0.036	2.74 %
		0.045 - 0.055 mg/L	80.0 - 120.0 % Recovery			0.0 - 50.0 %
WC12MET Conductivity (mS/	m)					
<0.1 mS/m	F	141.2	E	157.3	157.3	0.00 %
		139.3 - 143.3 mS/m				0.0 - 20.0 %
WC17NS BOD5	·			•		
<2 mg/L	<2	200	E	6	6	В
		139.0 - 257.0 mg/L				0.0 - 0.0 %

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LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria Acceptance Criteria		Acceptance Criteria		
WC26NS500 Oil & Grease						
<5 mg/L	<5	86	E			
		85.1 - 101.5 mg/L				
WC44NS Total Suspended So	olids	·				
<2 mg/L	<2	51	E	600	600	0.00 %
		42.5 - 57.5 mg/L				0.0 - 20.0 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

DUPLICATE BOD5 B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ