

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



Laboratory Services

ACCRE	tical Report	edited for compliance with ISO/IEC 17025 - Testing 243906 er Laboratory Services	Delivery Telepho Email:	Address: ne:	Sydney Water Corporation 51 Hermitage Rd West Ryde NSW 2114 (02) 9800 6935 analyticalservices@sydneywater.com.au
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2. Sampl 3. Analyti 4. Comm	y Water Approved Si e Summary ical results	gnatory			

Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Analyst	Ricardo Quintana, Clean & Waste Water Analyst	Jouliet Ashak, Microbiology Analyst
Kathryn Gamble, Microbiology Analyst	Greta Haddad, Nutrients Laboratory Supervisor	

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
OINT 1 POLISHER	L21038364	1	21/04/2021	22/04/2021	03/05/2021	
POINT 2 TURKEYS	L21038365	1	21/04/2021	22/04/2021	04/05/2021	
SPLITTER BOX 1	L21038366	1	21/04/2021	22/04/2021	03/05/2021	
SPLITTER BOX 2	L21038367	1	21/04/2021	22/04/2021	03/05/2021	
INLET	L21038368	1	21/04/2021	22/04/2021	03/05/2021	

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

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Client Sample ID		POINT 1 POLISHER	POINT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET				
Sampled Date		21/04/2021 07:25:00 AM	21/04/2021 07:40:00 AM	21/04/2021 07:15:00 AM	21/04/2021 07:15:00 AM	21/04/2021 07:15:00 AM				
Sample Number		L21038364	L21038365	L21038366	L21038367	L21038368				
CHEMISTRY		•			••			•		
WC12MET : Conductivity										
Conductivity (mS/m)	mS/m	89.0	89.2	-	-	-				
Date of Performance	DD/MM/YY	22/04/21	23/04/21							
WC17NS : Biological oxygen o	WC17NS : Biological oxygen demand									
CBOD5	mg/L	2	4	79	7	73				
Date of Performance	DD/MM/YY	23/04/21	23/04/21	23/04/21	23/04/21	23/04/21				
WC26NS500 : Grease	•									
								Γ		
Oil & Grease	mg/L	<5	<5	-	-	-				
Date of Performance	DD/MM/YY	23/04/21	23/04/21							
WC44NS : Determination of To	otal, Fixed & V	olatile Suspended S	olids					-		
Total Suspended Solids	mg/L	6	7	-	-	-				
Date of Performance	DD/MM/YY	23/04/21	23/04/21							
WC62NS : Total Dissolved Sol	lids in water									
" " - Not required or refer to										

"-" = 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		21/04/2021 07:25:00 AM	21/04/2021 07:40:00 AM	21/04/2021 07:15:00 AM	21/04/2021 07:15:00 AM	21/04/2021 07:15:00 AM		
Sample Number		L21038364	L21038365	L21038366	L21038367	L21038368		
CHEMISTRY	•						•	
WC62NS : Total Dissolved So	olids in water(Co	ontinued)						
Total Dissolved Solids	mg/L	-	502	-	-	-		
Date of Performance	DD/MM/YY		22/04/21					
MICRO								-
MI01 : Faecal Coliform and/o	r E. coli							
Faecal Coliform	CFU/100mL	-	3	-	-	-		
Date of Performance	D/M/Y H:M		22/04/21 14:57					
MI28 : Total Coliforms and/or	E.coli							
E.coli	Orgs / 100mL	-	2	-	-	-		
Total Coliforms	Orgs / 100mL	-	77000	-	-	-		
Date of Performance	D/M/Y H:M		22/04/21 14:56					
NUTRIENTS							-	
NU102 : Nitrogen & Phospho	rus							

"-" = Not required or refer to Laboratory comment



Client Sample ID		POINT 1 POLISHER	POINT 2 TURKEYS	SPLITTER BOX	SPLITTER BOX 2	INLET				
Sampled Date		21/04/2021 07:25:00 AM	21/04/2021 07:40:00 AM	21/04/2021 07:15:00 AM	21/04/2021 07:15:00 AM	21/04/2021 07:15:00 AM				
Sample Number		L21038364	L21038365	L21038366	L21038367	L21038368				
NUTRIENTS										
NU102 : Nitrogen & Phosphor	rus(Continued)									
Total Nitrogen	mg/L	3.08	4.61	-	-	-				
Total Phosphorus	mg/L	0.670	0.980	-	-	-				
Date of Performance	DD/MM/YY	26/04/21	26/04/21							

COMMENTS

Sample ID	Comment Level	<u>Method</u>	Test	<u>Comment</u>
L21038365	Method	MI01	-	Result confirmed. Sample analysed outside recommended holding time of 24Hrs.
L21038365	Method	MI28	-	Sample analysed outside recommended holding time of 24Hrs

Analysis Requirements
This method is not NATA accredited for saline matrix.
Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.
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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



	LOQ	Blank	Positive Control	Negative Control	Duplicate1 Duplicate2		Precision
			Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
MI01	[Membrane Filtration]F	Faecal Coliform					
	<1 CFU/100mL	<1	Accepted	Accepted	3	1	Not Calculated
MI28	[Enzyme Substrate Tee	chniques]E.coli					
	<1 Orgs / 100mL	<1	Accepted	Accepted	2	1	Accepted
MI28	[Enzyme Substrate Tee	chniques]Total Coliforms					
	<1 Orgs / 100mL	<1	Accepted	Accepted	77000	77000	Accepted

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.94	89 % Recovery	1.28	1.29	0.78 %
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 20 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.049	89 % Recovery	0.002	0.002	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
WC12MET Conductivity (mS/	/m)					
<0.1 mS/m F		141.0	E	943.3	942.7	0.64e-1 %
		139.3 - 143.3 mS/m				0 - 20 %



LOQ Blank		Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
WC17NS CBOD5		·	•			
<2 mg/L	F	180	E	73	70	4.20 %
		139 - 257 mg/L				0 - 20 %
WC26NS500 Oil & Grease						
<5 mg/L	<5	88	E			
		85.1 - 101.5 mg/L				
WC44NS Total Suspended S	olids			-		
<2 mg/L	<2	50	E	200	200	0.00 %
		42.5 - 57.5 mg/L				0 - 20 %
WC62NS Total Dissolved So	lids			-		
<10 mg/L	<10	292	E	658	652	0.92 %
		255 - 345 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