

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



Laboratory Services

Sydney Water Corporation

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Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Analyst	Linda Gao, Metals Analyst	Jouliet Ashak, Microbiology Analyst
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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> Sample ID	<u>Sample</u> <u>Number</u>	<u>Sampling</u> <u>Procedure</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	Date Authorised	Description
PT 1 POLISHER	L22066506	1	22/08/2022	23/08/2022	02/09/2022	COBAR STP (WASTEWATER)
PT 2 TURKEYS	L22066507	1	22/08/2022	23/08/2022	02/09/2022	COBAR STP (WASTEWATER)
SPITTER BOX 1	L22066508	1	22/08/2022	23/08/2022	30/08/2022	COBAR STP (WASTEWATER)
SPITTER BOX 2	L22066509	1	22/08/2022	23/08/2022	30/08/2022	COBAR STP (WASTEWATER)
INLET	L22066510	1	22/08/2022	23/08/2022	30/08/2022	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		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET		
Sampled Date		22/08/2022 08:00:00 AM						
Sample Number		L22066506	L22066507	L22066508	L22066509	L22066510		
CHEMISTRY		•		•				
WC12 : Conductivity & Salin	ity							
		1		,			 	
Salinity	ppt	-	0.4	-	-	0.4		
Date of Performance	DD/MM/YY		24/08/22			24/08/22		
WC12MET : Conductivity	- -							
Conductivity (mS/m)	mS/m	77.5	74.9	-	-	-		
Date of Performance	DD/MM/YY	24/08/22	24/08/22					
WC17NS : Biochemical oxyg	jen demand							
BOD5	mg/L	<2	3	180	230	130		
Date of Performance	DD/MM/YY	24/08/22	24/08/22	24/08/22	24/08/22	24/08/22		
WC26NS500 : Oil & Grease	- -							
Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	29/08/22	29/08/22					
WC44NS : Total, Fixed & Vo	latile Suspende	d Solids		1				
" " - Not required or refer								



Client Sample ID		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET		
Sampled Date		22/08/2022 08:00:00 AM						
Sample Number		L22066506	L22066507	L22066508	L22066509	L22066510		
CHEMISTRY								
WC44NS : Total, Fixed & Vol	atile Suspende	d Solids(Continued)						
Total Suspended Solids	mg/L	8	6	-	-	-		
Date of Performance	DD/MM/YY	29/08/22	29/08/22					
METALS	•							
TM70SAR : Metals by Induct	ively Coupled F	Plasma Atomic Emiss	ion Spectrometry					
SAR*	RATIO	-	3.5	-	-	3.4		
TM70SDT : Single digestion	for Metals							
Total Digestion	DONE	-	Done	-	-	Done		
Date of Performance	DD/MM/YY		26/08/22			26/08/22		
TM70TW : Metals by ICPAES	S.	<u> </u>			•••••			
Total Calcium	mg/L	-	27.6	-	-	23.7		
Total Magnesium	mg/L	-	9.95	-	-	10.2		
Total Sodium	mg/L	-	84.4	-	-	78.0		
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* Indicates NATA accreditation does not cover the performance of this service



Client Sample ID		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET		
Sampled Date		22/08/2022 08:00:00 AM						
Sample Number		L22066506	L22066507	L22066508	L22066509	L22066510		
METALS		•						
Date of Performance	DD/MM/YY		26/08/22			26/08/22		
MICRO								
MI01 : Faecal Coliform and/or	E. coli							
E.coli	CFU/100mL	-	27	-	-	-		
Faecal Coliform	CFU/100mL	-	27	-	-	-		
Date of Performance	D/M/Y H:M		23/08/22 16:23					
NUTRIENTS							- · · · ·	-
NU102 : Total Nitrogen & Total	l Phosphorus							
Total Nitrogen	mg/L	25.2	19.4	-	-	-		
Total Phosphorus	mg/L	5.64	5.08	-	-	-		
Date of Performance	DD/MM/YY	24/08/22	24/08/22					

COMMENTS

Sample ID	Comment Level	Method	Test	<u>Comment</u>
L22066507	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

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



<u>Analysis</u>	Analysis Requirements
MI01	Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.
WC12	Conductivity measured @ 25 degrees Celsius
MI01	Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

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



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	27	16	Accepted	
MI01	01 [Membrane Filtration]Faecal Coliform							
	<1 CFU/100mL	<1	Accepted	Accepted	27	16	Accepted	

LOQ	Blank	Control Spike Du		Duplicate1 [Duplicate2	RPD
		Acceptance Criteria Acceptance Criteria				Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.97	100 % Recovery	0.37	0.37	В
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.051	85 % Recovery	0.002	0.003	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
TM70TW Total Calcium						
<0.01 mg/L	<0.01	50.0	95 % Recovery	37.7	37.6	0.27 %
		40.0 - 60.0 mg/L	80 - 120 % Recovery			0 - 20 %
TM70TW Total Magnesium			·	·		
<0.02 mg/L	<0.02	50.1	95 % Recovery	18.8	18.7	0.53 %
		40.0 - 60.0 mg/L	80 - 120 % Recovery			0 - 20 %

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LOQ	Blank	Control	Spike	Duplicate1 Duplicate2	RPD
	Dialik				
		Acceptance Criteria	Acceptance Criteria		Acceptance Criteria
TM70TW Total Sodium			-		
<0.05 mg/L	<0.05	54.2	86 % Recovery	147 146	0.68 %
		40.0 - 60.0 mg/L	80 - 120 % Recovery		0 - 20 %
WC12MET Conductivity (mS	S/m)				
<0.1 mS/m	F	141.0	E	77.5 77.5	0.00 %
		139.3 - 143.3 mS/m			0 - 20 %
WC12 Salinity			·		
<0.1 ppt	F	0.7	E	0.4 0.4	В
		0.6 - 0.8 ppt			0 - 0 %
WC17NS BOD5			•		
<2 mg/L	<2	190	E	130 120	8.00 %
		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	Solids	·	-		
<2 mg/L	<2	52	E	250 240	4.08 %
		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
DUPLICATE Salinity B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ