



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



Analytical Report 310704

Issue Date: 24/08/2024
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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>
PT1 POLISHEER	L24069965	1	13/08/2024	14/08/2024	22/08/2024	COBAR STP (WW)
PT2 TURKEYS	L24069966	1	13/08/2024	14/08/2024	23/08/2024	COBAR STP (WW)
SPITTER BOX 1	L24069967	1	13/08/2024	14/08/2024	21/08/2024	COBAR STP (WW)
SPITTER BOX 2	L24069968	1	13/08/2024	14/08/2024	21/08/2024	COBAR STP (WW)
S INLET	L24069969	1	13/08/2024	14/08/2024	21/08/2024	COBAR STP (WW)

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		PT1 POLISHEER	PT2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		13/08/2024 07:38:00 AM	13/08/2024 07:51:00 AM	13/08/2024 07:23:00 AM	13/08/2024 07:30:00 AM	13/08/2024 07:15:00 AM			
Sample Number		L24069965	L24069966	L24069967	L24069968	L24069969			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	124.8	106.4	-	-	-			
Date of Performance	DD/MM/YY	15/08/24	15/08/24						
WC17NS : Biochemical oxygen demand									
BOD5	mg/L	2	<2	160	16	70			
Date of Performance	DD/MM/YY	15/08/24	15/08/24	15/08/24	15/08/24	15/08/24			
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	19/08/24	19/08/24						
WC44NS : Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	6	4	-	-	-			
Date of Performance	DD/MM/YY	16/08/24	20/08/24						

"-" = Not required or refer to Laboratory comment

Client Sample ID		PT1 POLISHEER	PT2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		13/08/2024 07:38:00 AM	13/08/2024 07:51:00 AM	13/08/2024 07:23:00 AM	13/08/2024 07:30:00 AM	13/08/2024 07:15:00 AM			
Sample Number		L24069965	L24069966	L24069967	L24069968	L24069969			
MICRO									
MI01 : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	3	-	-	-			
Faecal Coliform	CFU/100mL	-	3	-	-	-			
Date of Performance	D/M/Y H:M		14/08/24 16:37						
NUTRIENTS									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	15.1	7.05	-	-	-			
Total Phosphorus	mg/L	4.14	2.94	-	-	-			
Date of Performance	DD/MM/YY	15/08/24	21/08/24						

COMMENTS

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L24069966	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

Analysis

MI01

Analysis Requirements

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 <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	3	2	Accepted
MI01 [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	3	2	Accepted

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	0.99 <i>0.88 - 1.12 mg/L</i>	100 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.64	0.64	0.00 % <i>0.0 - 50.0 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.053 <i>0.045 - 0.055 mg/L</i>	102 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.017	0.018	B <i>0.0 - 0.0 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	140.9 <i>139.3 - 143.3 mS/m</i>	E	70.2	70.2	0.00 % <i>0.0 - 20.0 %</i>

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
WC17NS BOD5						
<2 mg/L	<2	200 139.0 - 257.0 mg/L	E	<2	<2	B 0.0 - 0.0 %
WC26NS500 Oil & Grease						
<5 mg/L	<5	93 85.1 - 101.5 mg/L	E			
WC44NS Total Suspended Solids						
<2 mg/L	<2	51 44.0 - 53.0 mg/L	E	400	420	4.88 % 0.0 - 20.0 %

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