

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



| Accreditation | | 290260 | Deliver | y Address: | Sydney Water Corporation 51 Hermitage Rd West Ryde NSW 2114 |
|-----------------|----------|-----------------------------|-------------------|----------------|---|
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Sydney Water Approved Signatory

| Dwijal Dave, Clean & Waste Water Analyst | Jeya Gajendran, Clean & Waste Water Analyst | Jouliet Ashak, Microbiology Analyst |
|--|---|-------------------------------------|
| Hayman Akeed, Nutrients 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> Number | <u>Sampling</u> Procedure | <u>Date</u> Sampled | <u>Date</u> <u>Received</u> | <u>Date</u> Authorised | Description |
|----------------------------|-------------------------|------------------------------|------------------------|--------------------------------|---------------------------|--------------------|
| PT1 (POLISHER) | L23066542 | 1 | 15/08/2023 | 15/08/2023 | 23/08/2023 | (WASTE WATER) |
| PT2 (TURKEYS) | L23066543 | 1 | 15/08/2023 | 15/08/2023 | 23/08/2023 | (WASTE WATER) |
| SPITTER BOX 1 | L23066544 | 1 | 15/08/2023 | 15/08/2023 | 29/08/2023 | (WASTE WATER) |
| SPITTER BOX 2 | L23066545 | 1 | 15/08/2023 | 15/08/2023 | 29/08/2023 | (WASTE WATER) |
| S INLET | L23066546 | 1 | 15/08/2023 | 15/08/2023 | 23/08/2023 | (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

| Right Sample Date Right 15/08/2023 15/08/2023 15/08/2023 07/45:00 AM 15/08/2023 07/45:00 AM 15/08/2023 07/45:00 AM 15/08/2023 07/45:00 AM sample Number L23066543 L23066543 L23066545 L2306545 | | | | | | | | | | |
|---|-------------------------------|------------------------------------|-----------|---------------|---------------|---------------|-----------|--|--|--|
| Markan 07:55:00 AM 08:17:00 AM 07:43:00 AM 07:45:00 AM 07:40:00 AM <t< td=""><td>Client Sample ID</td><td></td><td></td><td>PT2 (TURKEYS)</td><td>SPITTER BOX 1</td><td>SPITTER BOX 2</td><td>S INLET</td><td></td><td></td><td></td></t<> | Client Sample ID | | | PT2 (TURKEYS) | SPITTER BOX 1 | SPITTER BOX 2 | S INLET | | | |
| Chemistry MC12MET : Conductivity Conductivity (mS/m) mS/m 118.7 108.0 · · · Image: Conductivity Conductivity (mS/m) mS/m 118.7 106.0 · · Image: Conductivity Date of Performance DD/MM/YY 16/08/23 16/08/23 Image: Conductivity Image: Conductivity <td< td=""><td>Sampled Date</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | Sampled Date | | | | | | | | | |
| MC12MET : Conductivity MS/m 118.7 108.0 · < | Sample Number | | L23066542 | L23066543 | L23066544 | L23066545 | L23066546 | | | |
| Conductivity (mS/m) mS/m 118.7 108.0 <t< td=""><td colspan="10">CHEMISTRY</td></t<> | CHEMISTRY | | | | | | | | | |
| Date of Performance DD/MM/YY 16/08/23 16/08/23 Constrained Constrained <thconstrained< th=""> Constrained</thconstrained<> | WC12MET : Conductivity | | | | | | | | | |
| MC17NS : Biochemical oxygen demand mg/L <2 6 110 100 260 M BOD5 mg/L <2 | Conductivity (mS/m) | mS/m | 118.7 | 108.0 | - | - | - | | | |
| BOD5 mg/L <2 6 110 110 260 Date of Performance DD/MM/YY 16/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 | Date of Performance | DD/MM/YY | 16/08/23 | 16/08/23 | | | | | | |
| Late of PerformanceDD/MMI/YY16/08/23 <td>WC17NS : Biochemical oxyger</td> <td colspan="9">WC17NS : Biochemical oxygen demand</td> | WC17NS : Biochemical oxyger | WC17NS : Biochemical oxygen demand | | | | | | | | |
| WC26NS500 : Oil & Grease mg/L <5 <5 - <t< td=""><td>BOD5</td><td>mg/L</td><td><2</td><td>6</td><td>110</td><td>110</td><td>260</td><td></td><td></td><td></td></t<> | BOD5 | mg/L | <2 | 6 | 110 | 110 | 260 | | | |
| Oil & Greasemg/Lmg/L<5<5<1<1<1Date of PerformanceDD/MM/YY17/08/2317/08/2310IIIIWC44NS : Total, Fixed & VolatileSuspended Solidsmg/L833II | Date of Performance | DD/MM/YY | 16/08/23 | 16/08/23 | 16/08/23 | 16/08/23 | 16/08/23 | | | |
| Image: A state of PerformanceImage: DD/MM/YYImage: A state of PerformanceImage: A state of Performance< | WC26NS500 : Oil & Grease | | | | | | | | | |
| Image: A state of PerformanceImage: DD/MM/YYImage: A state of PerformanceImage: A state of Performance< | Oil & Grease | mg/L | <5 | <5 | - | - | - | | | |
| Date of Performance DD/MM/YY 18/08/23 18/08/23 - <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | <u> </u> | | | | | | | | |
| Total Suspended Solids mg/L 8 33 - - - - - Date of Performance DD/MM/YY 18/08/23 18/08/23 0 | Date of Performance | DD/MM/YY | 17/08/23 | 17/08/23 | | | | | | |
| Date of Performance DD/MM/YY 18/08/23 18/08/23 Image: Control of the second seco | WC44NS : Total, Fixed & Volat | ile Suspendeo | d Solids | | | | | | | |
| | Total Suspended Solids | mg/L | 8 | 33 | - | - | - | | | |
| MICRO | Date of Performance | DD/MM/YY | 18/08/23 | 18/08/23 | | | | | | |
| | MICRO | | | | | | | | | |



| Client Sample ID | | PT1 (POLISHE R) | PT2 (TURKEYS) | SPITTER BOX 1 | SPITTER BOX 2 | S INLET | | | |
|--------------------------------|------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|---|--|
| Sampled Date | | 15/08/2023 07:55:00 AM | 15/08/2023 08:17:00 AM | 15/08/2023 07:43:00 AM | 15/08/2023 07:45:00 AM | 15/08/2023 07:40:00 AM | | | |
| Sample Number | | L23066542 | L23066543 | L23066544 | L23066545 | L23066546 | | | |
| MICRO | | | | | | | | | |
| MI01 : Faecal Coliform and/or | E. coli | | | | | | | | |
| | | | | | | | [| [| |
| E.coli | CFU/100mL | - | 8 | - | - | - | | | |
| Faecal Coliform | CFU/100mL | - | 8 | - | - | - | | | |
| Date of Performance | D/M/Y H:M | | 15/08/23 17:21 | | | | | | |
| NUTRIENTS | | | | | | | | | |
| NU102 : Total Nitrogen & Total | Phosphorus | | | | | | | | |
| Total Nitrogen | mg/L | 6.33 | 3.90 | - | - | - | | | |
| Total Phosphorus | mg/L | 2.26 | 1.78 | - | - | - | | | |
| Date of Performance | DD/MM/YY | 16/08/23 | 16/08/23 | | | | | | |

COMMENTS

| <u>Sample ID</u> | <u>Comment Level</u> | <u>Method</u> | <u>Test</u> | Comment |
|-------------------------|---|---------------|------------------------|-------------------------|
| L23066543 | Method | MI01 | - | Result confirmed. |
| <u>Analysis</u> MI01 | <u>Analysis Requ</u> Faecal Coliforr otherwise. | | all results are presum | nptive unless indicated |

"-" = Not required or refer to Laboratory comment



LABORATORY QC RESULTS

N/A - Not Applicable PQL - Practical Quantifaction 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 | I01 [Membrane Filtration]E.coli | | | | | | | | | |
| | <1 CFU/100mL | <1 | Accepted | Accepted | 8 | 5 | Accepted | | | |
| MI01 | All01 [Membrane Filtration]Faecal Coliform | | | | | | | | | |
| | <1 CFU/100mL | <1 | Accepted | Accepted | 8 | 5 | Accepted | | | |

| LOQ | Blank | Control | Spike | Duplicate1 | Duplicate2 | RPD |
|--------------------------|---------------------------------------|---|-------------------------|------------|------------|---------------------|
| | | Acceptance Criteria Acceptance Criteria | | | | Acceptance Criteria |
| NU102 Total Nitrogen | | | | | | |
| <0.05 mg/L | <0.05 | 0.96 | 89 % Recovery | 0.40 | 0.39 | В |
| | | 0.88 - 1.12 mg/L | 80.0 - 120.0 % Recovery | | | 0.0 - 0.0 % |
| NU102 Total Phosphorus | · · · · · · · · · · · · · · · · · · · | | | | | |
| <0.002 mg/L | <0.002 | 0.053 | 94 % Recovery | <0.002 | <0.002 | В |
| | | 0.045 - 0.055 mg/L | 80.0 - 120.0 % Recovery | | | 0.0 - 0.0 % |
| WC12MET Conductivity (mS | /m) | | | | | |
| <0.1 mS/m | F | 140.1 | E | 108.0 | 107.8 | 0.19 % |
| | | 139.3 - 143.3 mS/m | | | | 0.0 - 20.0 % |
| WC17NS BOD5 | · · · · · | | | | | |
| <2 mg/L | <2 | 220 | E | 660 | 560 | 16.39 % |
| | | 139.0 - 257.0 mg/L | | | | 0.0 - 20.0 % |

Sydney WATER Laboratory Services

| LOQ | Blank | Control | Spike | Duplicate1 | Duplicate2 | RPD |
|--------------------------|-------|---------------------|---------------------|------------|------------|---------------------|
| | | Acceptance Criteria | Acceptance Criteria | | | Acceptance Criteria |
| WC26NS500 Oil & Grease | | | | | | |
| <5 mg/L | <5 | 91 | E | | | |
| | | 85.1 - 101.5 mg/L | | | | |
| WC44NS Total Suspended S | olids | | • | • | | |
| <2 mg/L | <2 | 51 | E | 130 | 130 | 0.00 % |
| | | 44.0 - 53.0 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 Total Phosphorus B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ