

WYOMING SEWAGE TREATMENT PLANT

Works # 110002489

2024 ANNUAL REPORT OF OPERATIONS

Managed, Operated and Maintained by:

Jacobs

March 2025

Ontario Ministry of Environment, Conservation and Parks 1094 London Road, Sarnia, Ontario N7S 1P1

MECP District Manager,

On behalf of the Corporation of the Town of Plympton-Wyoming in Lambton County, OMI (Jacobs) is pleased to submit to you the annual compliance report for the Wyoming Sewage Treatment Plant. Please feel free to contact the undersigned if you have any questions regarding this report.

Respectfully Submitted,

Christopher Toulouse

CC:

Jacobs - Lead Operator

Paul daSilva, Director of Public Works, Town of Plympton-Wyoming

Joe Bloomfield, Jacobs, Project Manager

Table of Contents

| B A summary and interpretation of all Final Effluent monitoring data, including concentration, for vartes, badding and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works. C A summary of any deviation from the monitoring schedule and reasons for the current reporting 9 | Α | A summary and interpretation of all Influent and Imported Sewage monitoring data, and a review of the historical trend of the sewage characteristics and flow rates. | 4 |
|--|---|--|----|
| D A summary of all operating issues encountered, and corrective actions taken. 9 | В | flow rates, loading and a comparison to the design objectives and compliance limits in this | 5 |
| E A summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus, or mechanism forming part of the Works. F A summary of any effluent quality assurance or control measures undertaken. 10 G A summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer. H A summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations: i. When any of the design objectives is not achieve actions if any are required under the following situations: i. When any of the design objectives is not achieve actions if any are required under the following situations: ii. When the Annual Average Dally Influent Flow reaches 80% of the Rated Capacity. I A tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed. J A summary of any complaints received, and any steps taken to address the complaints. 12 K A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events. L A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the santary sewer system that result in overall Bypass / Overflow either and projects of the top of the pass of | С | | 9 |
| F A summary of any effluent quality assurance or control measures undertaken. G A summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer. H A summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations: i. When any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend to deterioration of Final Effluent quality. ii. When the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity. I A tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed. J A summary of any complaints received, and any steps taken to address the complaints. 12 K A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events. L A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-S-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflows with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Appendix A. Appendix B. | D | A summary of all operating issues encountered, and corrective actions taken. | 9 |
| G A summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer. H A summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations: i. When any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend to deterioration of Final Effluent quality. ii. When the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity. I A tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed. J A summary of any complaints received, and any steps taken to address the complaints. 12 K A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events. L A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflow with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Append | E | | 9 |
| and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer. H A summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations: i. When any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend to deterioration of Final Effluent quality. ii. When the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity. I A tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed. J A summary of any complaints received, and any steps taken to address the complaints. 12 K A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events. L A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflows with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Appendix B. Appendix B. | F | A summary of any effluent quality assurance or control measures undertaken. | 10 |
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| generated in the next reporting period and a summary of the locations to where the sludge was disposed. J A summary of any complaints received, and any steps taken to address the complaints. I 2 K A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events. L A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflows with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Appendix A. 14 Appendix B. 20 Appendix C. 26 | Н | assessment of the issues and recommendations for pro-active actions if any are required under the following situations: i. When any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend to deterioration of Final Effluent quality. | 10 |
| K A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events. L A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflow with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Appendix A. 14 Appendix B. 20 Appendix C. 26 | I | generated in the next reporting period and a summary of the locations to where the sludge was | 11 |
| A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflows with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Appendix A. 14 Appendix B. 20 Appendix C. 26 | J | A summary of any complaints received, and any steps taken to address the complaints. | 12 |
| Limited Operations Flexibility Condition, including a report on status of implementation of all modification. M A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflows with estimated budget forecast for the year following that for which the report in submitted. N Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works. Appendix A. 14 Appendix B. 20 Appendix C. 26 | K | | 12 |
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| Appendix B. 20 Appendix C. 26 | N | | 13 |
| Appendix C. 26 | | Appendix A. | 14 |
| | | Appendix B. | 20 |
| Appendix D. 29 | | Appendix C. | 26 |
| | | Appendix D. | 29 |

Introduction:

The Wyoming Sewage Treatment Plant (STP) was constructed in 1978. It is classified as a Level III Treatment plant and Level II Collection system.

OMI (Jacobs) is the Operating Authority for the treatment plant and pump stations on behalf of The Corporation of the Town of Plympton-Wyoming.

The plant has a design capacity of 1,128 m³/day. The total annual effluent flow for 2024 was 235,763 m³, an average daily flow of 644.16 m³/day or 57.11% of capacity.

The treatment plant operates under ECA # 2260-AT6TJX, issued March 29, 2018.

The current STP is an extended aeration activated sludge plant which consists of an effluent flowmeter, automatic bar screen conveyor, course bubble aeration, clarification, sand filtration and UV disinfection.

The STP has an on-site back-up power generator that operates the plant and the Main pumping station during an emergency power outage.

Pump Stations & Collection System:

The Wyoming Main sanitary pumping station located just before the treatment plant receives raw sewage from a gravity sewer system and two other pump stations (O'Brien and Silver Springs Pump Stations).

The sewage is gravity feed through the collection system to Main pump station, which then pumps flow approximately 810 m to the STP.

Pump stations are checked on a weekly basis and have alarm monitoring capabilities 24-hours/day. Pump run time hours are documented during the weekly checks.

SECTION A

A summary and interpretation of all Influent and Imported Sewage monitoring data, and a review of the historical trend of the sewage characteristics and flow rates.

The Wyoming Sewage Treatment Plant does not currently have any equipment in place to monitor the influent flow rates or totals. A SmartCover was purchased by the Town of Plympton-Wyoming and put in upstream of the Main Pump Station to allow for remote monitoring and 24/7 alarm capability of the level in the collections system.

A 24-hour composite sample of the Influent sewage is collected once per month and analyzed by SGS Laboratories for the parameters: BOD₅, TKN, TSS, and TP in accordance with Schedule D

of the ECA. The onsite operators perform daily (Monday-Friday) grab sample monitoring for pH and temperature.

Historically the influent flow rates increase during storms/heavy rain events and during the spring snow melting/run-off. Recent development has also increased the influent flow rates; however, the Town of Plympton-Wyoming continues to monitor the level of development to maintain adequate capacity for abnormal events.

Phosphorous and solids removal is achieved by the addition of aluminum sulphate (alum) from two (2) metering pumps that deposit the alum directly into the combined receiving channel at the end of the aeration tank. The Alum is stored outside in a 22.7 m3 heated tank with a heat trace system to prevent lines from freezing.

Sodium Bicarbonate is added to the Influent stream as need to boost alkalinity and pH levels during the summer months.



Figure 1: Influent BOD5 and TSS Comparison

SECTION B

A summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works.

The Treated Effluent is discharged to Stonehouse Drain prior to discharging into Bear Creek. The Effluent sampling point is located downstream of the UV system and upstream of the effluent Parshall flume.

In accordance with Schedule D, a 24-hour composite sample of the Final Effluent is collected weekly and analyzed by SGS Laboratories for the parameters: CBOD₅, TSS, Total Phosphorous, TAN, and Unionized Ammonia. A weekly grab sample is also collected and analyzed for E-coli by SGS Laboratories. The onsite operator completes analysis of pH, temperature, reactive

phosphorous, nitrate, and nitrite. When Chlorine is in use a grab sample is collected daily and analyzed for a Total Chlorine residual.

The monthly Lab Data Sheets for the reporting year can be found in Appendix A. Flow vs Precipitation data was collected and developed during the reporting year and can be found in Appendix B.

Figure 2: ECA Objectives and Limits

| Effluent Parameter | Effluent Design Objective | Effluent Design Limits |
|------------------------|-----------------------------|-----------------------------|
| CBOD5 | 10 mg/L | 15 mg/L |
| Total Suspended Solids | 12 mg/L | 15 mg/L |
| Total Phosphorous | 0.70 mg/L | 1.0 mg/L |
| Total Ammonia Nitrogen | 5.0 mg/L (Nov 1 – April 30) | 7.0 mg/L (Nov 1 – April 30) |
| Total Ammonia Nitrogen | 3.0 mg/L (May 1 – Oct 31) | 5.0 mg/L (May 1 – Oct 31) |
| E-coli | 100 organisms per 100 mL | 200 organisms per 100 mL |
| pН | 6.5 – 8.5 inclusive | 6.0 – 9.0 inclusive |

Figure 3: Monthly / Yearly Average Results

2024 MONTHLY/YEARLY AVERAGE RESULTS

Wyoming W.W.T.P

Operations Number: 110002489 YEAR: 2024

Operating Authority: Jacobs Town of Plympton-Wyoming

| | | Raw Ir | nfluent | | | | | | Final | Effluent | | | | |
|----------------|-------|--------|---------|---------|-------|-------|---------|---------|---------|----------|-----------|--------|----------|------|
| | | | | | | | | Nitrite | Nitrate | Ammonia | Unionized | E-Coli | Reactive | |
| | BOD5 | S. S. | TKN | Total P | CBOD5 | S. S. | Total P | NO2 | NO3 | NH3 | Ammonia | Per | Р | рН |
| | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ug/L | 100 mL | mg/L | |
| January | 28 | 155 | 28.70 | 2.70 | 2.00 | 3.00 | 0.41 | 0.068 | 12.80 | 0.10 | 0.001 | 13.3 | 0.37 | 7.24 |
| February | 136 | 173 | 47.80 | 4.77 | 2.00 | 3.00 | 0.35 | 0.120 | 15.30 | 0.15 | 0.001 | 26.1 | 0.45 | 7.18 |
| March | 200 | 461 | 86.90 | 9.90 | 3.00 | 5.30 | 0.49 | 0.099 | 10.90 | 0.13 | 0.001 | 21.8 | 0.46 | 6.94 |
| April | 204 | 128 | 33.00 | 3.90 | 2.40 | 5.60 | 0.40 | 0.129 | 15.20 | 0.18 | 0.001 | 36.0 | 0.46 | 7.26 |
| May | 189 | 192 | 45.30 | 4.70 | 2.50 | 4.00 | 0.63 | 0.052 | 12.30 | 0.20 | 0.001 | 38.0 | 0.60 | 7.25 |
| June | 220 | 302 | 39.80 | 3.60 | 2.00 | 4.30 | 0.72 | 0.075 | 18.20 | 0.30 | 0.001 | 12.0 | 0.77 | 6.84 |
| July | 296 | 255 | 41.60 | 5.10 | 3.40 | 5.40 | 0.57 | 0.102 | 18.90 | 0.18 | 0.001 | 13.0 | 0.55 | 7.03 |
| August | 165 | 204 | 41.70 | 5.30 | 2.00 | 5.00 | 0.71 | 0.057 | 18.30 | 0.23 | 0.001 | 3.0 | 0.92 | 6.79 |
| September | 202 | 256 | 77.00 | 8.00 | 2.00 | 2.50 | 0.85 | 0.105 | 17.90 | 0.20 | 0.001 | 2.0 | 0.79 | 6.76 |
| October | 151 | 273 | 44.8 | 4.51 | 2.00 | 2.20 | 0.58 | 0.102 | 22.30 | 0.30 | 0.001 | 2.0 | 0.54 | 6.59 |
| November | 83 | 137 | 56.90 | 5.31 | 2.00 | 2.25 | 0.61 | 0.048 | 16.53 | 0.15 | 0.001 | 5.3 | 0.66 | 6.93 |
| December | 290 | 361 | 74.7 | 8.01 | 2.00 | 2.00 | 0.49 | 0.040 | 13.67 | 0.10 | 0.001 | 2.0 | 0.52 | 7.12 |
| Min | 28.0 | 128.0 | 28.70 | 2.70 | 2.00 | 2.00 | 0.35 | 0.040 | 10.90 | 0.10 | 0.001 | 2.0 | 0.37 | 6.59 |
| Max | 296.0 | 461.0 | 86.90 | 9.90 | 3.40 | 5.60 | 0.85 | 0.129 | 22.30 | 0.30 | 0.001 | 38.0 | 0.92 | 7.26 |
| Yearly Average | 180.3 | 241.4 | 51.52 | 5.48 | 2.28 | 3.71 | 0.57 | 0.083 | 16.02 | 0.19 | 0.001 | 14.5 | 0.59 | 6.99 |

Figure 4: Wyoming Effluent Flow Report

| MIN. 609 537 520 528 495 490 486 480 449 487 480 513 MAX. 2050 905 902 1402 1242 947 2438 956 591 1359 911 1640 AVG. 859.42 665.24 601.06 690.37 643.48 572.53 717.45 583.90 509.90 596.00 592.20 692.90 | | | | | | | | | | | | | |
|--|----------------------|--------|--------|--------|---------------|---|--------|---|-------------|---|---|--------|----------------|
| | | | | | V | Vyomino | WPCP | | | | | | |
| | | | | 20 | _)24 EFFI | LUENT F | LOW R | EPORTS | ; | | | | |
| | | | | | | | | | | | | | |
| DATE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| 1 | 834 | 905 | 568 | 599 | 603 | 596 | 559 | 596 | 527 | 537 | 480 | 583 | m³/d |
| 2 | 725 | 833 | 617 | 688 | 558 | 689 | 533 | 634 | 559 | 537 | 556 | 513 | m³/d |
| 3 | 789 | 829 | 626 | 671 | 712 | 566 | 505 | 603 | 487 | 533 | 573 | 553 | m³/d |
| 4 | 661 | 810 | 541 | 593 | 651 | 561 | 498 | 543 | 503 | 497 | 544 | 531 | m³/d |
| 5 | 670 | 754 | 559 | 546 | 662 | 605 | 488 | 581 | 478 | 564 | 517 | 518 | m³/d |
| 6 | 701 | 734 | 559 | 599 | 562 | 565 | 547 | 956 | 551 | 540 | 517 | 527 | m³/d |
| 7 | 697 | 722 | 521 | 600 | 621 | 525 | 516 | 751 | 591 | 488 | 500 | 574 | m³/d |
| 8 | 622 | 717 | 550 | 549 | 721 | 601 | 501 | 636 | 576 | 503 | 500 | 610 | m³/d |
| 9 | 808 | 675 | 902 | 528 | 643 | 646 | 486 | 576 | 517 | 489 | 557 | 709 | m³/d |
| 10 | 1091 | 740 | 716 | 532 | 550 | 536 | 1,071 | 592 | 449 | 522 587 600 538 510 514 585 528 525 845 599 619 | | m³/d | |
| 11 | 903 | 699 | 638 | 760 | 736 | 528 | 748 | 531 486 538 510 514 m 544 486 585 528 525 m 544 507 845 599 619 m 506 530 824 562 693 m | | | m³/d | | |
| 12 | 891 | 639 | 626 | 1402 | 672 | 519 | 617 | 531 | 486 | 538 | 510 | m³/d | |
| 13 | 1294 | 630 | 582 | 1058 | 586 | 523 | 567 | 544 | 486 | 585 | 510 514 528 525 599 619 562 693 592 663 | | m³/d |
| 14 | 912 | 575 | 631 | 842 | 555 | 490 | 599 | 544 | 507 | 845 | 599 | 619 | m³/d |
| 15 | 760 | 645 | 622 | 719 | 563 | 506 | 947 | 506 | 530 | 824 | 562 | m³/d | |
| 16 | 716 | 566 | 639 | 690 | 518 | 18 526 <mark>2,438</mark> 660 525 1,359 592 66 | | | | | 663 | m³/d | |
| 17 | 675 | 621 | 561 | 763 | 572 | 498 | 1,239 | 637 | 473 | 764 | 603 | 645 | m³/d |
| 18 | 651 | 632 | 639 | 849 | 537 | 508 | 950 | 678 | 480 | 643 | 536 | 617 | m³/d |
| 19 | 619 | 649 | 591 | 751 | 592 | 490 | 782 | 550 | 475 | 636 | 539 | 615 | m³/d |
| 20 | 654 | 593 | 544 | 738 | 708 | 530 | 722 | 541 | 469 | 635 | 710 | 608 | m³/d |
| 21 | 633 | 592 | 520 | 702 | 605 | 537 | 699 | 551 | 495 | 541 | 636 | 605 | m³/d |
| 22 | 609 | 570 | 530 | 621 | 558 | 538 | 633 | 519 | 547 | 538 | 716 | 608 | m³/d |
| 23 | 688 | 589 | 581 | 610 | 551 | 556 | 615 | 513 | 510 | 542 | 911 | 594 | m³/d |
| 24 | 926 | 625 | 605 | 596 | 495 | 496 | 603 | 541 | 511 | 528 | 716 | 680 | m³/d |
| 25 | 1014 | 645 | 536 | 559 | 612 | 529 | 559 | 559 | 510 | 487 | 659 | 682 | m³/d |
| | | | | | | | | | | | | | m³/d |
| | | | | | | | | | | | | | m³/d |
| | | | | | | | | | | | | | m³/d |
| | | 537 | | | | | | | | | | | m³/d |
| | | | | 658 | | 677 | | | 497 | | 590 | | m³/d |
| | | | | | | | | | | | | | m³/d |
| | , | | | | | | | | | | | 21,480 | m³/d |
| | | | | | | | | | | | | | m³/d |
| | | | | | | - | | | | | - | | m³/d |
| AVG. | 859.42 665.24 60 | | | 690.37 | 643.48 | 572.53 | 717.45 | 583.90 | 509.90 | 596.00 | 592.20 | 692.90 | m³/d |
| % Сар | 76.19% | 58.98% | 53.29% | 61.20% | 57.05% | 50.76% | 63.60% | 51.76% | 45.20% | 52.84% | 52.50% | 61.43% | |
| | Yearly Ave | rage: | | 644.16 | m³/d | | | | Yearly Tota | al: | 235, | 763 | m ³ |

 Yearly Average:
 644.16
 m³/d

 Design Capacity:
 1,128
 m³/d

 % of Design Capacity:
 57.11%
 m³/d

Yearly Total: 235,763 m

Figure 5: Historical Effluent Flows

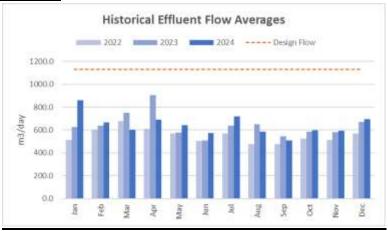


Figure 6: Effluent TP Comparison

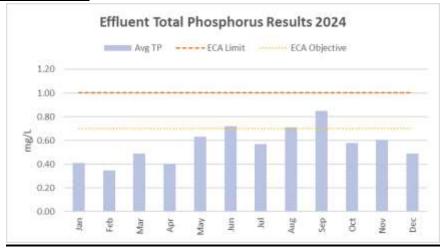


Figure 7: Effluent CBOD5 and TSS Comparison

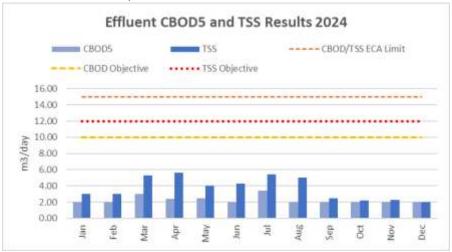


Figure 8: Effluent Removal Efficiencies

| | | Removal I | Efficiency | | |
|----------|---------|------------|------------|---------|------------|
| Influent | Final | Removal | Influent | Final | Removal |
| S.S. | S.S. | Efficiency | Total P | Total P | Efficiency |
| mg/L | mg/L | % | mg/L | mg/L | % |
| 155 | 3.00 | 98.06 | 2.70 | 0.41 | 84.81 |
| 173 | 3.00 | 98.27 | 4.77 | 0.35 | 92.66 |
| 461 | 5.30 | 98.85 | 9.90 | 0.49 | 95.05 |
| 128 | 5.60 | 95.63 | 3.90 | 0.40 | 89.74 |
| 192 | 4.00 | 97.92 | 4.70 | 0.63 | 86.60 |
| 302 | 4.30 | 98.58 | 3.60 | 0.72 | 80.00 |
| 255 | 5.40 | 97.88 | 5.10 | 0.57 | 88.82 |
| 204 | 5.00 | 97.55 | 5.30 | 0.71 | 86.60 |
| 256 | 2.50 | 99.02 | 8.00 | 0.85 | 89.38 |
| 273 | 2.20 | 99.19 | 4.51 | 0.58 | 87.14 |
| 137 | 2.25 | 98.36 | 5.31 | 0.61 | 88.61 |
| 361 | 2.00 | 99.45 | 8.01 | 0.49 | 93.88 |
| | Min | 95.63 | | Min | 80.00 |
| | Max | 99.45 | | Max | 95.05 |
| | Average | 98.23 | | Average | 88.61 |

8

SECTION C

A summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year.

A sampling schedule is created and distributed by the start of the reporting year and adhered to by the Operating Authority. In accordance with Schedule 9.1 page 14 of the ECA: the schedule shall be revised and updated every year through a rotation of the day of the week/month of the scheduled sampling program.

During the 2024 reporting year, samples were collected on the Tuesday of every week with deviations only occurring during operations staff shortages or when sample delivery and holding times would be exceeded due to SGS Laboratory holidays.

Throughout the 2025 reporting year, samples will be collected on the Monday of every week with limited deviations anticipated by SGS Laboratory holidays.

SECTION D

A summary of all operating issues encountered, and corrective actions taken.

The Wyoming STP did experience several days in which the flows were above the Design Capacity but were below the Peak Capacity as outlined in the ECA due to above average rainfalls and severe storms. The Wyoming STP and its sewage works did have a total of four (4) events in the reporting year and are discussed in Section K of this report.

SECTION E

A summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus, or mechanism forming part of the Works.

Jacobs utilizes a computerized maintenance management system (CMMS) to track preventative and corrective maintenance activities. Preventative maintenance activities are carried out on a regular basis predetermined by the allocation and issuance of work orders including but not limited to equipment greasing, oil changes, and equipment inspections. The predetermined activities help to ensure optimal performance of the Works equipment and ensure the availability of equipment in emergency situations.

Early in the 2023 reporting year, Selectra Inc was awarded the electrical contract for the replacement of the MCC panel and installation of a SCADA system at the Wyoming STP through Eramosa Engineering and the Town of Plympton-Wyoming. The project was started in mid-2023, but unforeseen electrical issues and supply procurement delays had stalled the project. The new MCC was installed on September 10th, 2024, and all essential equipment powered up and

running. All other remaining equipment terminations were made on September 11th, 2024. The new PLC was terminated and commissioned between September 16th and 20th, with all equipment now operating through the PLC / SCADA system as intended.

SECTION F

A summary of any effluent quality assurance or control measures undertaken.

The final effluent quality determines the efficiency of the treatment facility and if the standards set out in Schedule B, C, and D of the ECA are being met. The effluent quality is monitored on a regular basis by the Operating Authority for both legal and operational requirements. Proper sampling techniques and analysis are utilized to ensure that the Wyoming STP is operating efficiently and without impact to the environment. All records of process data are kept onsite at the Wyoming STP and electronic copies made available in the case of an emergency. The Operating Authority continues to improve upon the Standard Operating Procedures set out to ensure the integrity of the facility is maintained.

SECTION G

A summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer.

The annual flow meter calibrations were completed on August 27th, 2024, by Pierce Services and Solutions Inc. All calibration sheets are kept at the Wyoming STP and electronic copies kept as a backup. A copy of the reporting years calibration sheets can be found in Appendix C of this report.

The pH meter and probe used at the Wyoming STP undergoes a daily calibration and calibration verification as per manufacturer specifications. All data is recorded and kept at the Wyoming STP.

SECTION H

A summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

- iii. When any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend to deterioration of Final Effluent quality.
- iv. When the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity.

In June, the Design Objective for Total Phosphorus was not achieved. The monthly average was 0.72mg/L, while the objective is 0.70mg/L. Due to seasonal temperature changes and an alkalinity

/ pH drop, the aeration tank became foamy which also filled the alum dosing channel. This foam build up was not allowing for a proper dose of Alum to be discharged into the flow stream causing elevated Phosphorus readings. A garden hose was set up in the receiving stream to help knock down the foam and allow for adequate chemical dosing and mixing.

In August, the Design Objective for Total Phosphorus was not achieved. The monthly average was 0.71 mg/L, while the objective is 0.70mg/L. It was determined that the tertiary filter was not performing at its best potential, with the sand becoming somewhat foiled. The filter system was run in a manual state while manual washing and stirring of the sand occurred to assist in the agitation and backwashing of the system.

In September, the Design Objective for Total Phosphorus was not achieved. The monthly average was 0.85 mg/L, while the objective is 0.70mg/L. The treatment plant had elevated influent phosphorus levels and become foamy because of the dry weather and alkalinity / pH drop, resulting in poor mixing within the alum channel. Some of this foam was making its way into the filter, which was causing some foiling. A hose was setup to knock the foam down within the alum mixing channel and slowly improved the remaining treatment processes.

The Town of Plympton-Wyoming has developed and put out Cross-Connectional bylaws and has put together a grant program to assist homeowners with the separation of sump pumps from the sanitary sewer system and installation of a Back Flow Preventor. This program developed by the Town has had great feedback with the public and is designed to help reduce the overall flow that the Wyoming STP receives during both normal seasonal weather and abnormal rainfall events. It appears that it will take several years to fully see the affects the stated program has on the treatment plant.

SECTION I

A tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summery of the locations to where the sludge was disposed.

Waste activated sludge (WAS) is stored in aerobic digesters with the capacity to decant and transfer the supernatant back to the Headworks for further treatment. A grab sample of the sludge is collected quarterly and analyzed for the parameters listed in Schedule D of the ECA under Sludge/Biosolids. A copy of the sludge analysis can be found in Appendix D of this report.

For the year 2025, it is anticipated that the volume of sludge and concentrations produced will increase slightly as new residential and business development within the area continues.

Sludge is currently hauled off site by Central Sanitation to Saul Farms biweekly or as needed. For the 2024 reporting year, a total of 80 loads with a total volume of 1,440 m³ were hauled off site.

SECTION J

A summary of any complaints received, and any steps taken to address the complaints.

No complaints were received regarding the Wyoming STP for the 2024 reporting year.

The collections system had a total of 2 complaints for sanitary sewer backups. All complaints were responded to, with most issues being on private property where homeowners were instructed to call a plumber for remediation.

SECTION K

A summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events.

During the 2024 reporting year, the Wyoming STP and its Works had a total of four (4) bypass and overflow events.

On January 26th, 2024, the Wyoming STP Filter needed to be bypassed due to heavy rains and snow melts resulting in abnormally high flows entering the treatment plant. The event lasted 9.7 hours and had a total bypass volume 1,300 m³ that received UV disinfection. All applicable parties were notified of the event with a reference number of 1-4M8BZO.

On July 16th, 2024, Wyoming had received 54.7mm of rain, after receiving 26.9mm on July 15th, resulting in a Town wide sanitary backup. The Wyoming Main Pump station was not able to keep up with the flows being received and had overflowed to the Stonehouse Drain. A total estimated flow of 300m³ of raw sewage had overflowed over the 5.4-hour event. All applicable parties were notified with a reference number of 1-8ZTNRU.

On July 16th, 2024, the Wyoming STP filter needed to be bypassed due to the rain fall amounts and the Wyoming Main Pump Station being inodiated with flow. The event lasted 6 hours and had a total bypass volume 1,600 m³ that received UV disinfection. All applicable parties were notified of the event with a reference number of 1-8ZS9L8.

On December 30th, 2024, the Wyoming STP filter needed to be bypassed due to a mechanical failure and a 28.1 mm rain fall the night before resulting in higher-than-normal flows. The event lasted 6.3-hours and had a total bypass volume of 491 m³ that received UV disinfection. All applicable parties were notified of the event with a reference number of 1-FCMP9N

SECTION L

A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Limited Operations Flexibility Condition, including a report on status of implementation of all modification.

No Notices of Modifications were completed during the reporting year.

SECTION M

A summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to, projects undertaken and completed in the sanitary sewer system that result in overall Bypass / Overflow elimination including expenditures and proposed projects to eliminate Bypass / Overflows with estimated budget forecast for the year following that for which the report in submitted.

No projects were undertaken in the collections system to eliminate Bypass / Overflows.

The Town of Plympton-Wyoming and the Operating Authority work together to preform regular cleaning and inspections of the entire sanitary collections system to identify and prevent significant issues. In the reporting year, the system was flushed, and CCTV inspections occurred in range with the allowable budget set out by the Town of Plympton-Wyoming.

SECTION N

Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works.

Nothing to report in the reporting year.

APPENDIX A

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

January

Wyoming W.W.T.P.
Operations Number: *110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming YEAR: 2024

Analyst: Christopher Toulouse

| | mg/L mg/L BOD5 s. S. TKN mg/L an 6344 28 155 28.7 4268 | | | | | | | | FINAL | EFFL | UENT | | | | | | Lab R Rece | |
|--------------------|---|------|----|-----|------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|---------------|---------|
| Test # Date | mg/L | mg/L | | | | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 3-Jan | | 6344 | 28 | 155 | 28.7 | 2.74 | 2.0 | 2.0 | 0.41 | 0.040 | 17.9 | 0.10 | 0.001 | 1 | 0.39 | 7.30 | 11-Jan | СТ |
| 2 9-Jan | | 4268 | | | | | 2.0 | 5.0 | 0.67 | 0.027 | 10.7 | 0.10 | 0.001 | 10 | 0.51 | 7.11 | 17-Jan | СТ |
| 3 16-Jan | | 5468 | | | | | 2.0 | 2.0 | 0.57 | 0.087 | 9.3 | 0.10 | 0.001 | 16 | 0.30 | 7.36 | 22-Jan | СТ |
| 4 23-Jan | | 6152 | | | | | 2.0 | 3.0 | 0.26 | 0.117 | 13.3 | 0.10 | 0.001 | 52 | 0.28 | 7.19 | 29-Jan | СТ |
| 5 30-Jan | | 3904 | | | | | 2.0 | 3.0 | 0.13 | 0.071 | 11.3 | 0.10 | 0.001 | 50 | 0.20 | 7.40 | 5-Feb | СТ |
| EC | A Object | ives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| | ECA Lim | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Number | of Tests | | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Monthl | y Average | : | 28 | 155 | 28.7 | 2.7 | 2.0 | 3.0 | 0.41 | 0.068 | 12.8 | 0.1 | 0.001 | 13.3 | 0.37 | 7.24 | | |
| Monthly | / Min: | | 28 | 155 | 28.7 | 2.7 | 2 | 2 | 0.13 | 0.027 | 9.3 | 0.10 | 0.00 | 1 | 0.2 | 7.11 | | |
| Monthly | / Max: | | 28 | 155 | 28.7 | 2.7 | 2 | 5 | 0.67 | 0.117 | 17.9 | 0.10 | 0.00 | 52 | 0.51 | 7.40 | | |

Total Ammonia Nitrogen (May 1st - Oct 31) Limit is 5.0 mg/L / Objective is 3.0 mg/L Total Ammonia Nitrogen (Nov 1st - April 30th) Limit is 7.0 mg/L / Objective is 5.0 mg/L

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: February

Wyoming W.W.T.P.
Operations Number: 110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming YEAR: 2024

Christopher Toulouse Analyst:

| | mg/L mg/L BOD5 S. S. TKN mg/L | | | | | IT | | | FINAL | EFFL | UENT | | | | | | Lab R Rece | |
|--------------------|---|-------|-----|-----|------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|---------------|---------|
| Test # Date | mg/L | mg/L | | | | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 6-Feb | | 4872 | 136 | 173 | 47.8 | 4.77 | 2.0 | 2.0 | 0.22 | 0,094 | 14.8 | 0.10 | 0.001 | 38 | 0.24 | 7.37 | 12-Feb | СТ |
| 2 13-Feb | | 5136 | | | | | 2.0 | 3.0 | 0.47 | 0.137 | 13.2 | 0.10 | 0.001 | 18 | 0.72 | 7.18 | 20-Feb | СТ |
| 3 21-Feb | | 5288 | | | | | 2.0 | 2.0 | 0.38 | 0.097 | 11.5 | 0.30 | 0.001 | 20 | 0.46 | 7.13 | 28-Feb | СТ |
| 4 27-Feb | | 5336 | | | | | 2.0 | 5.0 | 0.32 | 0.126 | 21.7 | 0.10 | 0.001 | 34 | 0.36 | 7.05 | 5-Mar | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| EC | CA Object | tives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| | ECA Limi | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Monthl | onthly Average: | | 136 | 173 | 47.8 | 4.8 | 2.0 | 3.0 | 0.35 | 0.120 | 15.3 | 0.15 | 0.001 | 26.1 | 0.45 | 7.18 | | |
| Monthly | / Min: | | 136 | 173 | 47.8 | 4.8 | 2 | 2 | 0.22 | 0.097 | 11.5 | 0.10 | 0.001 | 18 | 0.24 | 7.05 | | |
| Monthly | / Max: | | 136 | 173 | 47.8 | 4.8 | 2 | 5 | 0.47 | 0.137 | 21.7 | 0.30 | 0.001 | 38 | 0.72 | 7.37 | | |

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

March

Analyst:

Wyoming W.W.T.P.
Operations Number: 110002489

Operating Authority: Jacobs Municipality: Town of Plympton-Wyoming

YEAR:

Christopher Toulouse

2024

| | Aeration MLSS#1 | Aeration | R | AW INI | FLUEN | IT | | | FINAL | EFFL | UENT | | | | | | Lab R Rece | |
|--------------------|--------------------|----------------|--------------|---------------|-------------|---------|---------------|---------------|---------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|---------------|---------|
| Test # Date | mg/L | MLSS#2 mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P | CBOD5 mg/L | S. S. mg/L | Total P | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | рН | Date | Initial |
| 1 5-Mar | | 5420 | 200 | 461 | 86.6 | 9.9 | 4.0 | 4.0 | 0.45 | 0.108 | 5.3 | 0.10 | 0.001 | 6 | 0.53 | 6.93 | 18-Mar | СТ |
| 2 12-Mar | | 5604 | | | | | 2.0 | 4.0 | 0.47 | 0.055 | 10.7 | 0.10 | 0.001 | 8 | 0.46 | 7.02 | 18-Mar | СТ |
| 3 19-Mar | | 5612 | | | | | 3.0 | 7.0 | 0.52 | 0.091 | 18.6 | 0.10 | 0.001 | 62 | 0.41 | 6.98 | 26-Mar | СТ |
| 4 26-Mar | | 5436 | | | | | 3.0 | 6.0 | 0.50 | 0.142 | 8.8 | 0.20 | 0.001 | 76 | 0.45 | 6.81 | 1-Apr | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| EC | CA Object | ives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | · | |
| | ECA Lim | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Monthl | onthly Average: | | 200 | 461 | 86.6 | 9.9 | 3.0 | 5.3 | 0.49 | 0.099 | 10.9 | 0.13 | 0.001 | 21.8 | 0.46 | 6.94 | | |
| Monthly | / Min: | | 200 | 461 | 86.6 | 9.9 | 2 | 4 | 0.45 | 0.055 | 5.3 | 0.10 | 0.00 | 6 | 0.41 | 6.81 | | |
| Monthly | / Max: | | 200 | 461 | 86.6 | 9.9 | 4 | 7 | 0.52 | 0.142 | 18.6 | 0.20 | 0.00 | 76 | 0.53 | 7.02 | | |

Total Ammonia Nitrogen (May 1st - Oct 31) Limit is 5.0 mg/L / Objective is 3.0 mg/L Total Ammonia Nitrogen (Nov 1st - April 30th) Limit is 7.0 mg/L / Objective is 5.0 mg/L

| 2024 WEEKLY ANALYTICAL | and MONTHLY | AVEDAGE | DECLUITO |
|------------------------|---------------|---------|----------|
| 2024 WEEKLY ANALYTICAL | . and wontall | AVERAGE | RESULIS |

MONTH:

Analyst:

April

Christopher Toulouse

Wyoming W.W.T.P.
Operations Number: 710002489

Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming

YEAR: 2024

Aeration Aeration RAW INFLUENT FINAL EFFLUENT Lab Report MLSS#1 MLSS#2 Test Ammonia Unionized E-Coli Nitrite Nitrate Reactive mg/L BOD5 S. S. TKN Total I CBOD5 S. S. Total F NO2 NO3 NH3 Ammonia Initial mg/L Per рΗ Date mg/L 100ml mg/L 1 5896 204 128 33.0 3.9 2.0 2.0 0.36 0.111 8.8 0.10 0.001 40 0.42 7.37 15-Apr CT 3-Apr 16-Apr 2 6004 2.0 5.0 0.48 0.153 22.1 0.10 0.001 28 0.51 6.97 CT 9-Ap 3 4956 3.0 8.0 0.40 0.153 13.5 0.30 0.002 40 0.39 7.50 22-Apr СТ 16-Ap 4 4468 2.0 6.0 0.28 0.098 16.2 0.20 0.001 70 0.51 7.20 30-Apr CT 23-Ap 5 5252 0.47 0.066 20.0 0.001 3.0 7.0 0.20 20 0.48 6.93 7-May CT 29-An **ECA Objectives** 10 12 0.70 ee helov 100-Ged 6.5-8.5 **ECA Limits** 15 15 1.0 200-Geo 6.0- 9.5 see below Number of Tests 4 4 7.26 204 128 33.0 3.9 2.4 5.6 0.40 0.129 15.2 0.18 0.001 36 0.46 Monthly Average Monthly Min: 204 128 0.066 8.8 0.10 0.39 6.93 33 3.9 0.28 0.00 28 Monthly Max: 70

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS MONTH:

May Wyoming W.W.T.P.
Operations Number: "110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming

YEAR: 2024

Christopher Toulouse Analyst:

| | mg/L mg/L BOD5 mg/L mg/L | | | | | | | | FINAL | EFFL | UENT | | | | | | Lab R Rece | |
|--------------------|---|------|-----|-----|-------------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|---------------|---------|
| Test # Date | | | | | TKN mg/L | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 6-May | | 5356 | 189 | 192 | 45.3 | 4.7 | 2.0 | 2.0 | 0.58 | 0.007 | 16.5 | 0.20 | 0.001 | 46 | 0.61 | 7.12 | 14-May | СТ |
| 2 14-May | | 5564 | | | | | 3.0 | 4.0 | 0.57 | 0.067 | 13.6 | 0.30 | 0.001 | 40 | 0.47 | 7.26 | 22-May | СТ |
| 3 21-May | | 5116 | | | | | 3.0 | 3.0 | 0.82 | 0.119 | 8.9 | 0.20 | 0.001 | 16 | 0.79 | 7.20 | 28-May | СТ |
| 4 28-May | | 4240 | | | | | 2.0 | 7.0 | 0.56 | 0.013 | 10.3 | 0.10 | 0.001 | 68 | 0.54 | 7.42 | 4-Jun | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| EC | A Object | ives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| | ECA Limi | ts | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Number | of Tests | | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Monthly | y Average: | | 189 | 192 | 45.3 | 4.7 | 2.5 | 4.0 | 0.63 | 0.052 | 12.3 | 0.20 | 0.001 | 38 | 0.60 | 7.25 | | |
| Monthly | Min: | | 189 | 192 | 45.3 | 4.7 | 2 | 2 | 0.56 | 0.007 | 8.9 | 0.10 | 0.00 | 16 | 0.47 | 7.12 | | |
| Monthly | Max: | | 189 | 192 | 45.3 | 4.7 | 3 | 7 | 0.82 | 0.119 | 16.5 | 0.30 | 0.00 | 68 | 0.79 | 7.42 | | |

Total Ammonia Nitrogen (May 1st - Oct 31) Limit is 5.0 mg/L / Objective is 3.0 mg/L Total Ammonia Nitrogen (Nov 1st - April 30th) Limit is 7.0 mg/L / Objective is 5.0 mg/L

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: June Wyoming W.W.T.P.

YEAR: 2024

Operations Number: 110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming Analyst: Christopher Toulouse

| | ## mg/L mg/L BOD5 s. S. TKN mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | | | | | | | | FINAL | EFFL | UENT | | | | | | Lab R | |
|--------------------|---|--------|-----|-----|------|-----------------|---------------|---------------|-----------------|-------------|-------------|-------------|-----------------|--------------|-----------|----------|--------|---------|
| Test | MLSS#1 | MLSS#2 | | | | Г | | | | Nitrite | Nitrate | Ammonia | Unionized | E-Coli | Reactive | | Rece | eivea |
| # Date | mg/L | mg/L | | | | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | NO2 mg/L | NO3 mg/L | NH3 mg/L | Ammonia mg/L | Per 100ml | P mg/L | pН | Date | Initial |
| 1 3-Jun | | 5156 | 220 | 302 | 39.8 | 3.6 | 2.0 | 5.0 | 0.44 | 0.012 | 11.0 | 0.20 | 0.001 | 6 | 0.48 | 6.99 | 11-Jun | СТ |
| 2 11-Jun | | 5096 | | | | | 2.0 | 3.0 | 0.71 | 0.152 | 20.8 | 0.30 | 0.001 | 8 | 0.81 | 6.80 | 17-Jun | СТ |
| 3 18-Jun | | 5368 | | | | | 2.0 | 4.0 | 1.01 | 0.046 | 25.2 | 0.30 | 0.001 | 32 | 0.85 | 6.66 | 25-Jun | СТ |
| 4 25-Jun | | 4804 | | | | | 2.0 | 5.0 | 0.72 | 0.091 | 15.9 | 0.40 | 0.001 | 12 | 0.94 | 6.92 | 3-Jul | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| EC | CA Object | tives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| | ECA Limi | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Monthl | ly Average | : | 220 | 302 | 39.8 | 3.6 | 2.0 | 4.3 | 0.72 | 0.075 | 18.2 | 0.30 | 0.001 | 12 | 0.77 | 6.84 | | |
| Monthly | | | 220 | 302 | 39.8 | 3.6 | 2 | 3 | 0.44 | 0.012 | 11 | 0.20 | 0.00 | 6 | 0.48 | 6.66 | | |
| Monthly | v Max: | | 220 | 302 | 39.8 | 3.6 | 2 | 5 | 1.01 | 0.152 | 25.2 | 0.40 | 0.00 | 32 | 0.94 | 6.99 | | |

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS MONTH:

July

YEAR:

2024

Wyoming W.W.T.P.
Operations Number: *110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming Analyst : Christopher Toulouse

| | Aeration | Aeration | R | AW IN | FLUEN | IT | | | FINAL | EFFL | UENT | | | | | | Lab R | eport |
|--------------------|------------|----------|--------------|---------------|-------------|-------------------|---------------|---------------|-----------------|-------------|-------------|-------------|-----------------|--------------|-----------|----------|--------|---------|
| | MLSS#1 | MLSS#2 | | | | | | | | | | | | | | | Rece | eived |
| Test | _ | | | | | | | | | Nitrite | Nitrate | | Unionized | E-Coli | Reactive | | | |
| # Date | mg/L | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Iotal P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | NO2 mg/L | NO3 mg/L | NH3 mg/L | Ammonia mg/L | Per 100ml | P mg/L | pН | Date | Initial |
| Date | | | mg/L | Hg/L | Hg/L | Hg/L | Hg/L | Hg/L | Hg/L | Hg/L | Hg/L | HIG/L | IIIg/L | TOOTH | IIIg/L | | | |
| 1 | | 5620 | 296 | 255 | 41.6 | 5.09 | 2.0 | 3.0 | 0.58 | 0.172 | 21.0 | 0.30 | 0.001 | 20 | 0.54 | 7.04 | 10-Jul | CT |
| 3-Jan | | | | | | | | | | | | | | | | | | |
| 2 | | 6160 | | | | | 2.0 | 5.0 | 0.70 | 0.175 | 21.5 | 0.10 | 0.001 | 14 | 0.76 | 6.80 | 17-Jul | СТ |
| 9-Jan | | | | | | | | | | | | | | | | | | |
| 3 | | 5584 | | | | | 5.0 | 7.0 | 0.63 | 0.011 | 19.6 | 0.20 | 0.001 | 22 | 0.55 | 6.87 | 25-Jul | СТ |
| 16-Jul | | 3304 | | | | | 3.0 | 7.0 | 0.03 | 0.011 | 19.0 | 0.20 | 0.001 | 22 | 0.55 | 0.07 | 25-Jui | Ci |
| 4 | | 8376 | | | | | 4.0 | 8.0 | 0.36 | 0.051 | 13.5 | 0.10 | 0.001 | 6 | 0.36 | 7.39 | 30-Jul | СТ |
| 4 22-Jul | | 6376 | | | | | 4.0 | 0.0 | 0.36 | 0.051 | 13.5 | 0.10 | 0.001 | ō | 0.36 | 7.59 | 30-Jui | CI |
| 5 | | 4888 | | | | | 4.0 | 4.0 | 0.59 | 0.157 | 15.9 | 0.20 | 0.001 | 12 | 0.62 | 7.06 | 7-Aug | СТ |
| 29-Jul | | 4000 | | | | | 4.0 | 4.0 | 0.59 | 0.157 | 15.9 | 0.20 | 0.001 | 12 | 0.62 | 7.00 | 7-Aug | CI |
| | CA Object | ives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| | ECA Limi | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Monthl | ly Average | : | 296 | 255 | 41.6 | 5.1 | 3.4 | 5.4 | 0.57 | 0.102 | 18.9 | 0.18 | 0.001 | 13 | 0.55 | 7.03 | | |
| Monthly | y Min: | · | 296 | 255 | 41.6 | 5.1 | 2 | 3 | 0.36 | 0.011 | 13.5 | 0.10 | 0.00 | 6 | 0.36 | 6.80 | | |
| Monthly | y Max: | | 296 | 255 | 41.6 | 5.1 | 5 | 8 | 0.7 | 0.175 | 21.5 | 0.30 | 0.00 | 22 | 0.76 | 7.39 | | |

Total Ammonia Nitrogen (May 1st - Oct 31) Limit is 5.0 mg/L / Objective is 3.0 mg/L
Total Ammonia Nitrogen (Nov 1st - April 30th) Limit is 7.0 mg/L / Objective is 5.0 mg/L

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: August Wyoming W.W.T.P.

Operations Number: 110002489
Operating Authority: Jacobs

YEAR: 2024

Municipality: Town of Plympton-Wyoming Analyst: Christopher Toulouse

| | Aeration MLSS#1 | Aeration MLSS#2 | R | AW IN | FLUEN | ΙΤ | | | | | FINAL | EFFL | UENT | | | | Lab Report | Received |
|--------------------|--------------------|--------------------|--------------|---------------|-------------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|------------|----------|
| Test # Date | mg/L | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 7-Aug | | 6824 | 165 | 204 | 41.7 | 5.3 | 2.0 | 3.0 | 0.65 | 0.048 | 10.5 | 0.10 | 0.001 | 2 | 1.26 | 6.99 | 20-Aug | СТ |
| 2 12-Aug | | 5316 | | | | | 2.0 | 4.0 | 0.56 | 0.015 | 24.5 | 0.20 | 0.001 | 2 | 0.85 | 6.98 | 21-Aug | СТ |
| 3 20-Aug | | 5300 | | | | | 2.0 | 4.0 | 0.66 | 0.061 | 18.6 | 0.20 | 0.001 | 6 | 0.61 | 6.60 | 27-Aug | СТ |
| 4 27-Aug | | 5121 | | | | | 2.0 | 9.0 | 0.95 | 0.102 | 19.4 | 0.40 | 0.001 | 2 | 0.97 | 6.59 | 4-Sep | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| Object | ives | • | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| A Lim | its | | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Month | ly Average | : | 165 | 204 | 41.7 | 5.3 | 2.0 | 5.0 | 0.71 | 0.057 | 18.3 | 0.23 | 0.001 | 3 | 0.92 | 6.79 | | |
| Monthly | | | 165 | 204 | 41.7 | 5.3 | 2 | 3 | 0.56 | 0.015 | 10.5 | 0.10 | 0.00 | 2 | 0.61 | 6.59 | | |
| Monthly | y Max: | | 165 | 204 | 41.7 | 5.3 | 2 | 9 | 0.95 | 0.102 | 24.5 | 0.40 | 0.00 | 6 | 1.26 | 6.99 | | |

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS MONTH: September

YEAR:

Wyoming W.W.T.P.
Operations Number: 11000
Operating Authority: Jacobs 110002489

2024

Analyst:

Municipality: Town of Plympton-Wyoming

Christopher Toulouse

| | Aeration MLSS#1 | Aeration MLSS#2 | R | AW IN | FLUEN | ΝT | | | | ! | FINAL | EFFLU | JENT | | | | Lab Report | Received |
|--------------------|--------------------|-------------------------|--------------|---------------|-------------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|------------|----------|
| Test # Date | mg/L | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 4-Sep | | 7800 | 202 | 256 | 77.0 | 8.0 | 2.0 | 2.0 | 0.90 | 0.078 | 10.8 | 0.10 | 0.001 | 2 | 0.85 | 6.94 | 11-Sep | СТ |
| 2 10-Sep | | 5856 | | | | | 2.0 | 3.0 | 0.73 | 0.092 | 18.9 | 0.20 | 0.001 | 2 | 0.59 | 6.78 | 17-Sep | СТ |
| 3 17-Sep | | 5645 | | | | | 2.0 | 3.0 | 0.84 | 0.150 | 20.5 | 0.30 | 0.001 | 2 | 0.82 | 6.72 | 24-Sep | СТ |
| 4 24-Sep | | 4895 | | | | | 2.0 | 2.0 | 0.91 | 0.100 | 21.5 | 0.20 | 0.001 | 2 | 0.88 | 6.60 | 30-Sep | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| Object | ives | | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| CA Limi | ts | | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Number | of Tests | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Monthly | / Average: | | 202 | 256 | 77.0 | 8.0 | 2.0 | 2.5 | 0.85 | 0.105 | 17.9 | 0.20 | 0.001 | 2 | 0.79 | 6.76 | | |
| Monthly | Min: | , and the second second | 202 | 256 | 77 | 8.0 | 2 | 2 | 0.73 | 0.078 | 10.8 | 0.10 | 0.00 | 2 | 0.59 | 6.60 | J | |
| Monthly | Max: | | 202 | 256 | 77 | 8.0 | 2 | 3 | 0.91 | 0.15 | 21.5 | 0.30 | 0.00 | 2 | 0.88 | 6.94 | | |

Total Ammonia Nitrogen (May 1st - Oct 31) Limit is 5.0 mg/L / Objective is 3.0 mg/L Total Ammonia Nitrogen (Nov 1st - April 30th) Limit is 7.0 mg/L / Objective is 5.0 mg/L

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

October

Analyst:

YEAR:

2024

Wyoming W.W.T.P.
Operations Number: "110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming

Christopher Toulouse

| | Aeration | Aeration | R | AW IN | FLUEN | ΙT | | | FINAL | EFFL | UENT | | | | | | Lab Report | Received |
|--------------------|----------------|----------------|--------------|---------------|-------------|---------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|------------|----------|
| Test # Date | MLSS#1 mg/L | MLSS#2 mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 1-Oct | | 4612 | 151 | 273 | 44.8 | 4.51 | 2.0 | 3.0 | 0.71 | 0.100 | 27.7 | 0.10 | 0.001 | 1 | 0.65 | 6.68 | 9-Oct | СТ |
| 2 8-Oct | | 5494 | | | | | 2.0 | 2.0 | 0.50 | 0.095 | 19.6 | 0.20 | 0.001 | 2 | 0.47 | 6.54 | 15-Oct | СТ |
| 3 15-Oct | | 5236 | | | | | 2.0 | 2.0 | 0.46 | 0.091 | 24.2 | 0.70 | 0.001 | 2 | 0.50 | 6.58 | 23-Oct | СТ |
| 4 22-Oct | | 5496 | | | | | 2.0 | 2.0 | 0.54 | 0.121 | 17.6 | 0.20 | 0.001 | 2 | 0.52 | 6.55 | 29-Oct | СТ |
| 5 29-Oct | | 5716 | | | | | 2.0 | 2.0 | 0.71 | 0.105 | 21.1 | 0.20 | 0.001 | 2 | 0.69 | 6.60 | 5-Nov | СТ |
| EC | A Object | tives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | |
| | ECA Lim | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Number | of Tests | | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Monthl | y Average | : | 151 | 273 | 44.8 | 4.5 | 2.0 | 2.2 | 0.58 | 0.102 | 22.3 | 0.30 | 0.001 | 2 | 0.54 | 6.59 | | |
| Monthly | / Min: | | 151 | 273 | 44.8 | 4.5 | 2 | 2 | 0.46 | 0.091 | 17.6 | 0.10 | 0.00 | 1 | 0.47 | 6.54 | | |
| Monthly | / Max: | | 151 | 273 | 44.8 | 4.5 | 2 | 3 | 0.71 | 0.121 | 27.7 | 0.70 | 0.00 | 2 | 0.69 | 6.68 | | |

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS MONTH:

2024

November

YEAR:

Wyoming W.W.T.P.
Operations Number: "110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming

Christopher Toulouse

| | Aeration MLSS#1 | Aeration MLSS#2 | R | AW IN | FLUEN | IT | | | FINAL | EFFL | UENT | | | | | | Lab Report | Received |
|--------------------|--------------------|--------------------|--------------|---------------|-------------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|------------|----------|
| Test # Date | mg/L | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 5-Nov | | 5694 | 83 | 137 | 56.9 | 5.3 | 2.0 | 2.0 | 0.71 | 0.096 | 18.9 | 0.20 | 0.001 | 4 | 0.68 | 6.65 | 12-Nov | СТ |
| 2 12-Nov | | 6528 | | | | | 2.0 | 3.0 | 0.67 | 0.071 | 19.2 | 0.20 | 0.001 | 2 | 0.65 | 6.68 | 20-Nov | СТ |
| 3 19-Nov | | 7796 | | | | | 2.0 | 2.0 | 0.59 | 0.016 | 16.2 | 0.10 | 0.001 | 2 | 0.64 | 6.93 | 27-Nov | СТ |
| 4 26-Nov | | 8060 | | | | | 2.0 | 2.0 | 0.45 | 0.008 | 11.8 | 0.10 | 0.001 | 50 | 0.47 | 7.45 | 3-Dec | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| EC | CA Object | tives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | , | |
| | ECA Lim | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Month | ly Average | : | 83 | 137 | 56.9 | 5.3 | 2.0 | 2.3 | 0.61 | 0.048 | 16.5 | 0.15 | 0.001 | 5 | 0.61 | 6.93 | | |
| Monthly | y Min: | | 83 | 137 | 56.9 | 5.3 | 2 | 2 | 0.45 | 0.008 | 11.8 | 0.10 | 0.00 | 2 | 0.47 | 6.65 | | |
| Monthly | y Max: | | 83 | 137 | 56.9 | 5.3 | 2 | 3 | 0.71 | 0.096 | 19.2 | 0.20 | 0.00 | 50 | 0.68 | 7.45 | | |

Analyst:

Total Ammonia Nitrogen (May 1st - Oct 31) Limit is 5.0 mg/L / Objective is 3.0 mg/L Total Ammonia Nitrogen (Nov 1st - April 30th) Limit is 7.0 mg/L / Objective is 5.0 mg/L

2024 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS MONTH:

December

YEAR:

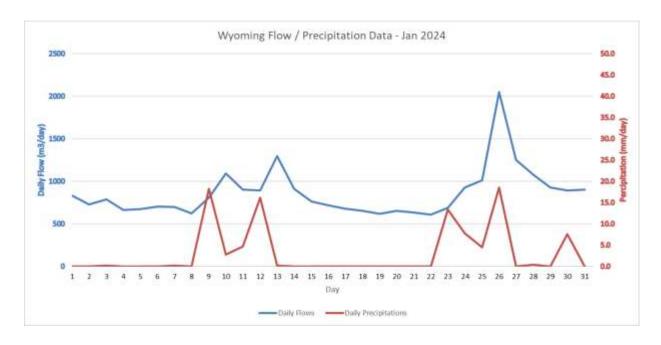
2024

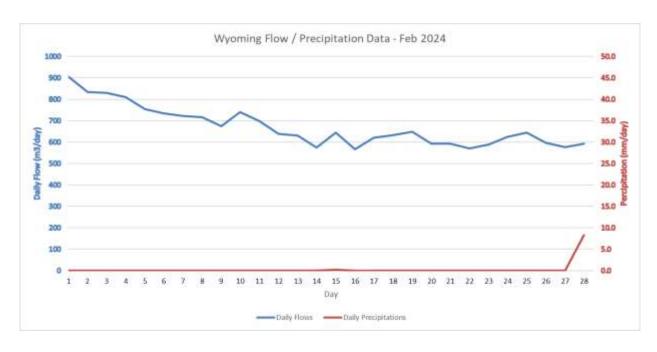
Wyoming W.W.T.P.
Operations Number: *110002489
Operating Authority: Jacobs
Municipality: Town of Plympton-Wyoming

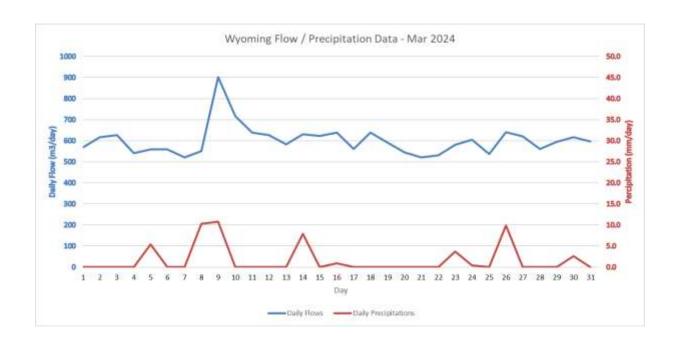
Christopher Toulouse Analyst:

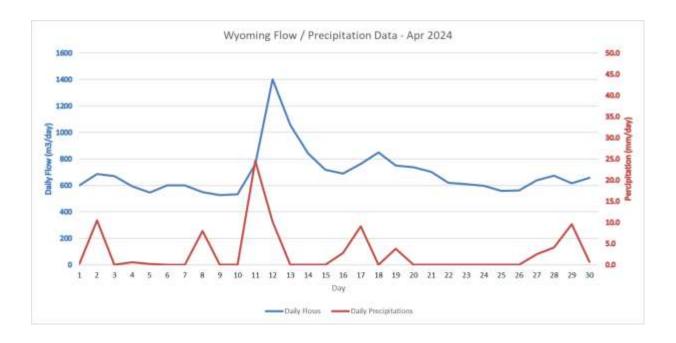
| | Aeration MLSS#1 | Aeration MLSS#2 | R | AW IN | FLUEN | IT | | | FINAL | EFFL | UENT | | | | | | Lab Report | Received |
|--------------------|--------------------|--------------------|--------------|---------------|-------------|-----------------|---------------|---------------|-----------------|------------------------|------------------------|------------------------|------------------------------|------------------------|-----------------------|----------|------------|----------|
| Test # Date | mg/L | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | Unionized Ammonia mg/L | E-Coli Per 100ml | Reactive P mg/L | pН | Date | Initial |
| 1 3-Dec | | 7988 | 290 | 361 | 74.7 | 8.0 | 2.0 | 2.0 | 0.57 | 0.034 | 13.3 | 0.10 | 0.001 | 2 | 0.71 | 6.76 | 10-Dec | СТ |
| 2 9-Dec | | 6576 | | | | | 2.0 | 2.0 | 0.51 | 0.045 | 17.6 | 0.10 | 0.001 | 2 | 0.51 | 7.25 | 16-Dec | СТ |
| 3 17-Dec | | 7928 | | | | | 2.0 | 2.0 | 0.45 | 0.042 | 10.1 | 0.10 | 0.001 | 2 | 0.38 | 6.85 | 23-Dec | СТ |
| 4 23-Dec | | | | | | | 2.0 | 2.0 | 0.43 | | | 0.10 | 0.001 | 2 | 0.48 | 7.63 | 31-Dec | СТ |
| 5 | | | | | | | | | | | | | | | | | | |
| EC | CA Object | tives | | | | | 10 | 12 | 0.70 | | | see below | | 100-Geo | | 6.5-8.5 | | ı |
| | ECA Lim | its | | | | | 15 | 15 | 1.0 | | | see below | | 200-Geo | | 6.0- 9.5 | | |
| Numbe | r of Tests | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Month | y Average | : | 290 | 361 | 74.7 | 8.0 | 2.0 | 2.0 | 0.49 | 0.040 | 13.7 | 0.10 | 0.001 | 2 | 0.52 | 7.12 | | |
| Monthly | | | 290 | 361 | 74.7 | 8.0 | 2 | 2 | 0.43 | 0.034 | 10.1 | 0.10 | 0.00 | 2 | 0.38 | 6.76 | | |
| Monthly | / Max: | | 290 | 361 | 74.7 | 8.0 | 2 | 2 | 0.57 | 0.045 | 17.6 | 0.10 | 0.00 | 2 | 0.71 | 7.63 | | |

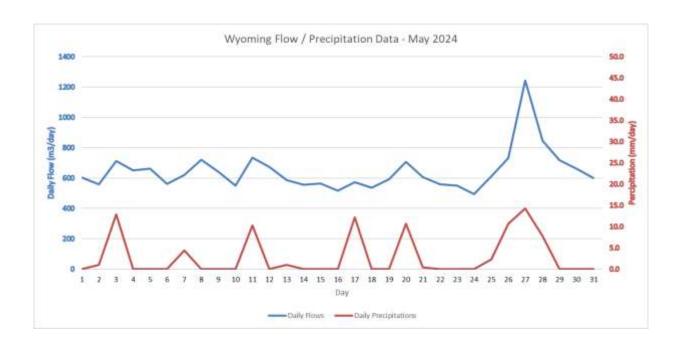
APPENDIX B

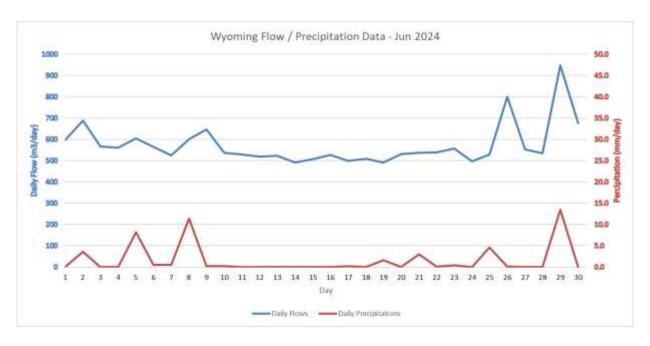


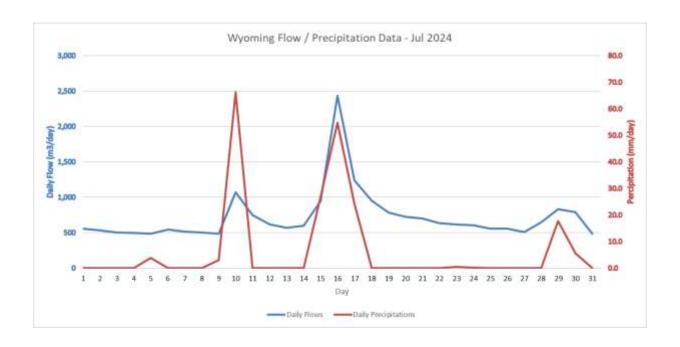


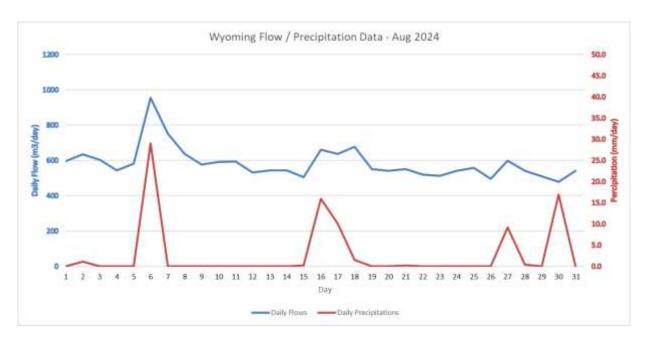


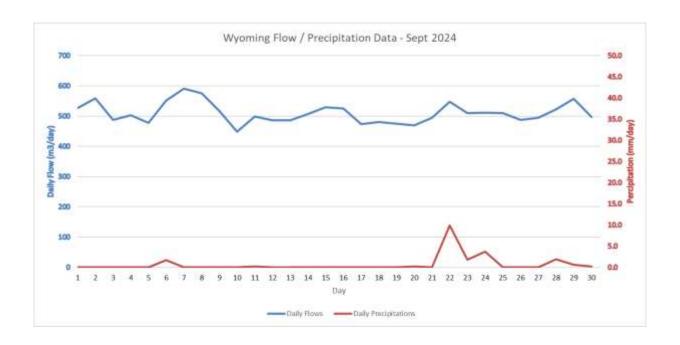


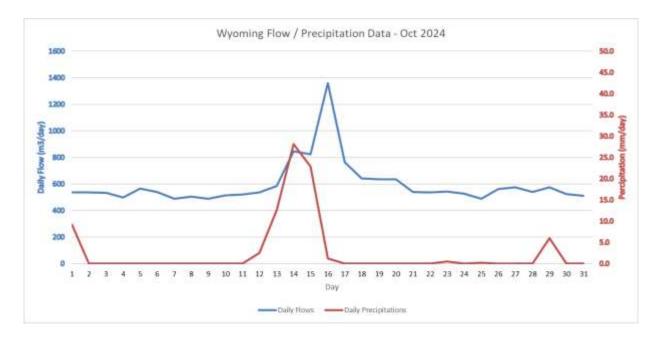


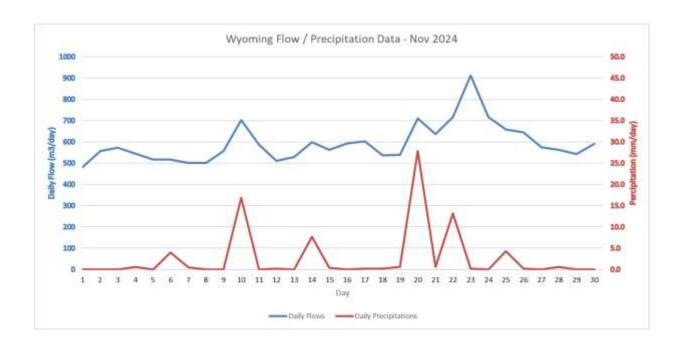


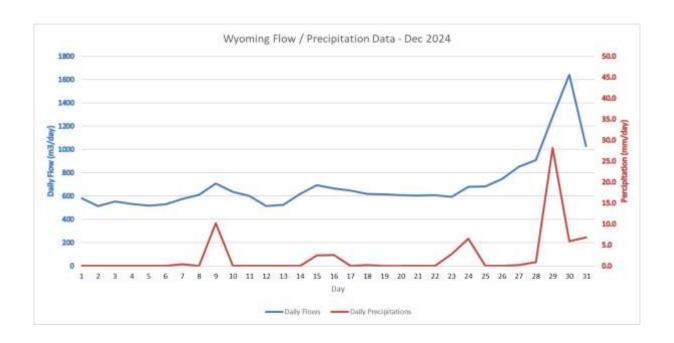












APPENDIX C

| | | | 45 Wilto | n Road | |
|-----------------------------|--|---------------|------------------------|----------|-----------|
| | Pierce Services & Solutions Inc | | Phone: | ON N1E 7 | .4853 |
| | | | Fax: | 519.824 | .9402 |
| | Flown | neter Rep | ort | | |
| Verificat | tion: X | Calibrati | on: |] | |
| Cli | ent: CHCMHIII OMI | - Locatio | on: Wyoming | RAS | |
| Descript | ion: Mag Meter | | te: 27-Aug-2 | | |
| Manufactu | rer: ABB | | By: Greg Pier | | |
| | del: Wastewater | | o.: 3K62000 | | _ |
| Inventory I | No.: | - 500000 | | | _ |
| Volocity | Input | As Found | As Left | | Pass/Fail |
| 3333.17 | Program Test OK | A3 T Valid | As Leit | | rass/rall |
| | Functional Test OK | NO ERRORS | | | + |
| | Output Test OK | | | | |
| | 7.52 m/a | | 674 | .31 l/m | _ |
| 3.0111 m/s | 9.785 mA | 1.084.7 l/m | | 4.7 I/m | Pass |
| Confirmed Run Mo | ode: X | | ned to service | | 1 1033 |
| Service Comments | | | | | |
| | | | | | -1.75 |
| Flow Unit: | 1/s | - 100 | | - Alle | 100 |
| Meter Size: | 150 mm | 1000 | NAME OF TAXABLE PARTY. | | |
| Pipe Material: | Stainless Steel | | | 1 1000 | |
| Liner Material: | PU 2455 2/4 | - | | | |
| Range: | 3456 m3/d | - | | | |
| Tag Number: Comm | FIT 1711 | - | | | |
| 0.77.733333 | ents: ation of original calibration | h) | | | - |
| | | | | | |
| E1 -1.20 kΩ E2 - 1.21kΩ | | | | | |
| E2 - 1.21kΩ E1 - 0.202 V | | | | | |
| | | | 11 | | |
| E2 - 0.193 V | | // | // | | |
| E120.007 V | | Signature: // | | | _ |
| CDI -179.94 mA | | Greg Pie | erce, CCST | | |
| CDR-3Ω | | 0.000 | | | |



519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

| Client Name | : Jacobs | Date: August 27, 2024 |
|-------------|----------|-----------------------|
| | | |

Equipment Description: Flow Meter Assigned Number: FIT 602

Area Located: Plympton Wyoming WPCP Drawing Number:______

Instrument Data

Manufacturer: Siemens/Milltronics Model Number: OCM III S/N PBD/U5290245

Type: Ultrasonic Measument Flume/Weir Type: .076m Parshall Flume

Range:0 - 5219 m3/d Accuracy: +/- 1%

Method Of Calibration: Standard Measurment Application: Wastewater

Calibration Data

| Input % | Input | As Found | Therorectical | Pass/Fail |
|---------|-------|---------------|---------------|-----------|
| 0.0 | 0 cm | 0.00 m3/d | 0.00 i/s | Pass |
| | 10 cm | 432.7934 m3/d | 432.72 m3/d | Pass |
| | 20 cm | 1264.66 m3/d | 1264.8 m3/d | Pass |
| | 30 cm | 2368.03 m3/d | 2368.32 m3/d | Pass |
| | 40 cm | 3695.45 m3/d | 3695.40 m3/d | Pass |
| 100 | 50 cm | 5219 m3/d | 5219 m3/d | Pass |
| 14 | 14.63 | 778.12 | 778.12 | Pass |

Confirmed Run Mode: 🗸

Placed back in service: 🗸

Comments:



Measurements confirmed with ISCO open channel flow measurement handbook (sixth edition)

Checked By: Greg Pierce CCST

Signature:



Alphabetical Parameter Listing OCM III Tag # Effluent Flow Date: August 27, 2024

| # | Parameter | Value | # | Parameter | Value |
|----------------|--|----------|-----|--------------------------------|---------------|
| 90 | Language | 0 | D0 | Head | 13.93 |
| P1 | Dimensional Units | 1 | D1 | Flow Rate | 723.312 |
| 2 | Temperature Units | 0 | D2 | Short Total | 477407.5 |
| 23 | Primary Element | 0 | D3 | Maximum Flow Rate | 6701.01 |
| 94 | Method of Calculation | 1 | D4 | Minimum Flow Rate | 0 |
| 95 | Flow Rate Units | 7 | D5 | Temperature | 22.22 |
| P6 | Flow at Maximum Head | 5219 | D6 | Maximum Temperature | 21.28 |
| P7 | Height of Maximum Head | 50 | D7 | Minimum Temperature | |
| 28 | Volts in at Zero Velocity | - 50 | D8 | Velocity | -11.6 |
| 9 | Velocity at 5 Volts In | | D9 | Nominal Target Range | 76 |
| P10 | Velocity at maximum flow | | D10 | Analog Milliamps | 6.25 |
| P13 | Display Damping | 2 | D11 | Internal DC Volts | 29.99 |
| 214 | Display Lighting | 0 | D12 | Velocity Volts | 28.99 |
| 215 | Relay 1 Assignment | 1 | D13 | Auxiliary Input Volts | 0.01 |
| 216 | Relay 1 High Set Point | - | D14 | Temperature Sensor Ohms | |
| 217 | Relay 1 Low Set Point | | D15 | Self-test Checksum | 9361 0000H |
| 218 | Relay 2 Assignment | 4 | D16 | Restarts | |
| P19 | Relay 2 High Set Point | 3.9 | D17 | Exceptions | 853 |
| 20 | Relay 2 Low Set Point | 3.4 | D18 | | 0 |
| P21 | Relay 3 Assignment | 0 | DIO | Valid Echos per 100 | 66 |
| 222 | Relay 3 High Set Point | | + | | - |
| P23 | Relay 3 Low Set Point | | + | | - |
| 224 | mA assignment | 0 | 150 | Don Market III | - |
| 25 | If Custom mA, 20 mA =? | | F2 | Run Mode 1/s | - |
| P26 | mA Span | 0 | - | Total X 1000 | |
| 27 | mA Damping | 10 | F6 | Software Identification Number | - |
| P28 | mA Options | | F7 | View Min/Max Data | - |
| P29 | Fail-safe Time | 0 | - | Max Flow | 6701.01 |
| P30 | THE RESIDENCE OF THE PERSON OF | 60 | Н — | Time | 10:49:54 |
| P31 | Fail-safe Analog Mode | 0 | 11 | Date | 2024-07-16 |
| Charles Street | Fail-safe Analog mA | 0 | - | Min Flow | 0.00 |
| P32 | Totalizer Multiplier | 3 | - | Time | 16:14:42 |
| P33 | Flow Rate Display | 2 | 11 | Date | 2023-02-24 |
| P34 | Printer Mode | 0 | | Max Temperature | 31.28 |
| P35 | Printer Timing | | - | Time | 12:35:41 |
| P36 | Measurement interval | 0 | - | Date | 2024-06-19 |
| P37 | Serial Data Rate | 5 | - | Min Temperature | -11.6 |
| P38 | Site Number | 0 | - | Time | 0:59:18 |
| P39 | Data Logging Rate | 2 | | Date | 2024-01-15 |
| P40 | Log Rapid Setpoint | | F8 | Reset Min/Max Data | 1 |
| P41 | Log Normal Setpoint | | | | |
| 42 | Head Determination | 0 | | | |
| 243 | Volts in For Zero Head | | | | |
| 244 | Head at 5 Volts In | - | | | |
| 45 | Low Flow Cut-off Head | 0 | | | |
| 248 | Range at Zero Head | 90.3 | | | |
| P47 | Blanking Distance | 30.48264 | | | |
| Jo | E | | | | |
| 0 | Exponent | 1.547 | - | | |

Site Location: Wyhoming STP

APPENDIX D

SGS

SGS Canada Inc. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-852-2000 FAX: 705-852-8365

O.M.I. Canada Inc.(Wyoming WPCP)

Attn: Doug Marsh

842 Broadway St. Wyoming, ON N0N 1T0, Canada

Phone: On Call Operator 1-888-399-1643 Fax:226-307-0029 Project: PO#145004557

29-February-2024

Date Rec.: 21 February 2024 LR Report: CA30364-FEB24

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

| Analysis | 1: Analysis Start Date | 2: Analysis Start Time | 3: Analysis Completed Date | 4: Analysis Completed Time | 5: Wyoming WWTP Sludge (grab) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Date & Time | | | | | 21-Feb-24 09:15 |
| Temperature Upon Receipt [at London Lab °C] | - | | - | - | 8.0 |
| Temperature Upon Receipt ["C] | . 177 | *** | 940 | **** | 6.0 |
| Total Solids [mg/L] | 23-Feb-24 | 17:04 | 27-Feb-24 | 09:42 | 15100 |
| Total Kjeldahl Nitrogen [as N mg/L] | 26-Feb-24 | 11:39 | 28-Feb-24 | 11:18 | 960 |
| Ammonia+Ammonium (N) [as N mg/L] | 26-Feb-24 | 17:55 | 29-Feb-24 | 13:00 | 35.1 |
| Nitrite (as N) [mg/L] | 26-Feb-24 | 22:23 | 29-Feb-24 | 13:41 | < 3 |
| Nitrate (as N) [mg/L] | 26-Feb-24 | 22:23 | 29-Feb-24 | 13:41 | < 3 |
| Nitrate + Nitrite (as N) [mg/L] | 26-Feb-24 | 22:23 | 29-Feb-24 | 13:41 | < 3 |
| Arsenic [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | < 0.1 |
| Cadmium [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.011 |
| Cobalt [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.03 |
| Chromium [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.21 |
| Copper [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 3.8 |
| Mercury [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.004 |
| Potassium (mg/L) | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 82 |
| Molybdenum [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.08 |
| Nickel [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.20 |
| Phosphorus (Total) [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 430 |
| Lead (mg/L) | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 0.2 |
| Selenium [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | < 0.1 |
| Zinc [mg/L] | 28-Feb-24 | 15:13 | 29-Feb-24 | 12:07 | 9 |

Note: Metals and mercury were analyzed on the as-received sample.

Carrie Greenlaw Project Specialist,

Environment, Health & Safety



SGS Canada Inc. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

O.M.I. Canada Inc.(Wyoming WPCP)

Attn : Doug Marsh

842 Broadway St. Wyoming, ON NON 1T0, Canada

Phone: On Call Operator 1-888-399-1643

Fax:226-307-0029

Project: PO#145004557

07-May-2024

Date Rec.: 30 April 2024 LR Report: CA30608-APR24

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

| Analysis | 1: Analysis Start Date | 2: Analysis Start Time | 3: Analysis Completed Date | 4: Analysis Completed Time | 5: Wyoming WWTP Sludge (grab) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Date & Time | | | | | 30-Apr-24 08:45 |
| Temperature Upon Receipt [at London Lab °C] | 5050 | (1777 .0 | 5575.0 | 555 67 | 13.2 |
| Temperature Upon Receipt [°C] | | - | | | 10.0 |
| Total Solids [mg/L] | 01-May-24 | 18:22 | 03-May-24 | 13:18 | 21700 |
| Total Kjeldahl Nitrogen [as N mg/L] | 02-May-24 | 07:13 | 08-May-24 | 10:08 | 1310 |
| Ammonia+Ammonium (N) [as N mg/L] | 02-May-24 | 17:57 | 03-May-24 | 13:15 | 67.2 |
| Nitrite (as N) [mg/L] | 03-May-24 | 11:37 | 07-May-24 | 12:38 | < 3 |
| Nitrate (as N) [mg/L] | 03-May-24 | 11:37 | 07-May-24 | 12:38 | < 3 |
| Nitrate + Nitrite (as N) [mg/L] | 03-May-24 | 11:37 | 07-May-24 | 12:38 | < 3 |
| Arsenic [mg/L] | 06-May-24 | 14:28 | 07-May-24 | 11:34 | < 0.1 |
| Cadmium [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 0.018 |
| Cobalt [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 0.17 |
| Chromium [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 1.3 |
| Copper [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 23 |
| Mercury [mg/L] | 06-May-24 | 14:28 | 07-May-24 | 11:34 | 0.012 |
| Potassium [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 79 |
| Molybdenum [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 0.16 |
| Nickel [mg/L] | 06-May-24 | 14:28 | 07-May-24 | 11:34 | 1.4 |
| Phosphorus (Total) [mg/L] | 08-May-24 | 14:26 | 07-May-24 | 11:34 | 880 |
| Lead [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 0.4 |
| Selenium [mg/L] | 08-May-24 | | 07-May-24 | 11:34 | 0.1 |
| Zinc [mg/L] | 06-May-24 | 14:26 | 07-May-24 | 11:34 | 19 |

Note: Metals and mercury were analyzed on the as-received sample.



SGS Canada Inc. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

O.M.I. Canada Inc.(Wyoming WPCP)

Attn: Doug Marsh

842 Broadway St. Wyoming, ON NON 1T0, Canada

Phone: On Call Operator 1-888-399-1643

Fax:226-307-0029

Project: PO#145004557

19-August-2024

Date Rec.: 07 August 2024 LR Report: CA30126-AUG24

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

| Analysis | 1: Analysis Start Date | 2: Analysis Start Time | 3: Analysis Completed Date | 4: Analysis Completed Time | 5: Wyoming WWTF Sludge (grab) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Date & Time | | | | | 07-Aug-24 10:20 |
| Temperature Upon Receipt [at London Lab °C] | 2000 | 222 | 33 221 5 | 43 <u>492</u> 8 | 13.9 |
| Temperature Upon Receipt [°C] | | 2332 | 50 445 55 | 2322 | 4.0 |
| Total Solids [mg/L] | 09-Aug-24 | 19:43 | 13-Aug-24 | 09:20 | 7940 |
| Total Kjeldahl Nitrogen [as N mg/L] | 12-Aug-24 | 15:51 | 14-Aug-24 | 15:05 | 446 |
| Ammonia+Ammonium (N) [as N mg/L] | 13-Aug-24 | 13:17 | 14-Aug-24 | 09:39 | 74.0 |
| Nitrite (as N) [mg/L] | 10-Aug-24 | 11:23 | 15-Aug-24 | 11:17 | < 3 |
| Nitrate (as N) [mg/L] | 10-Aug-24 | 11:23 | 15-Aug-24 | 11:17 | < 3 |
| Nitrate + Nitrite (as N) [mg/L] | 10-Aug-24 | 11:23 | 15-Aug-24 | 11:17 | < 3 |
| Arsenic [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | < 0.1 |
| Cadmium [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 0.006 |
| Cobalt [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 0.02 |
| Chromium [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 0.13 |
| Copper [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 1.9 |
| Mercury [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 0.003 |
| Potassium [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 56 |
| Molybdenum [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | < 0.05 |
| Nicket [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 0.11 |
| Phosphorus (Total) [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 240 |
| Lead [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 0.1 |
| Selenium [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | < 0.1 |
| Zinc [mg/L] | 14-Aug-24 | 20:17 | 15-Aug-24 | 09:39 | 5 |



SGS Canada Inc. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

O.M.I. Canada Inc.(Wyoming WPCP) Attn: Doug Marsh

842 Broadway St. Wyoming, ON NON 1T0, Canada

Phone: On Call Operator 1-888-399-1643 Fax:226-307-0029

22-October-2024

Date Rec.: 16 October 2024 LR Report: CA30437-OCT24

Project: PO#145004557

Copy:

CERTIFICATE OF ANALYSIS

Final Report

| Analysis | 1: Analysis Start Date | 2: Analysis Start Time | 3: Analysis Completed Date | 4: Analysis Completed Time | 5: Wyoming WWTP Słudge (grab) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Date & Time | | | | | 15-Oct-24 15:15 |
| Temperature Upon Receipt [at London Lab "C] | 1 | | - | | 15.9 |
| Temperature Upon Receipt [°C] | - | - | - | 444 | 8.0 |
| Total Solids [mg/L] | 18-Oct-24 | 21:25 | 22-Oct-24 | 09:26 | 30300 |
| Total Kjeldahl Nitrogen (as N mg/L) | 21-Oct-24 | 06:53 | 22-Oct-24 | 10:45 | 1840 |
| Ammonia+Ammonium (N) [as N mg/L] | 15-Oct-24 | 12:41 | 22-Oct-24 | 10:37 | 130 |
| Nitrite (as N) [mg/L] | 18-Oct-24 | 08:58 | 21-Oct-24 | 16:05 | < 3 |
| Nitrate (as N) [mg/L] | 18-Oct-24 | 08:58 | 21-Oct-24 | 16:05 | < 3 |
| Nitrate + Nitrite (as N) [mg/L] | 18-Oct-24 | 08:58 | 21-Oct-24 | 16:05 | < 3 |
| Arsenic [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.1 |
| Cadmium [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.024 |
| Cobalt [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.07 |
| Chromium [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.44 |
| Copper [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 8.4 |
| Mercury [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.008 |
| Potassium [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 92 |
| Molybdenum [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.18 |
| Nickel [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.37 |
| Phosphorus (Total) [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 1000 |
| Lead [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.4 |
| Selenium [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 0.2 |
| Zinc [mg/L] | 21-Oct-24 | 12:10 | 22-Oct-24 | 09:38 | 21 |

Note: Metals and mercury were analyzed on the as-received sample.

Hawley Anderson, Hon.B.Sc Project Specialist,

Environment, Health & Safety