

SYSTEM OVERVIEW

April 1st to June 30th , 2023

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the second quarter.
- Distribution flushing complete.
- Annual Well inspections completed.

Wastewater Treatment

- The wastewater treatment system performed well during the second quarter.
- North cell lagoon treated with 1418 imperial gallons (IMPG) of ferric sulphate on May 2, 2023.
- South cell lagoon treated with 2002 IMPG of ferric sulphate on May 9, 2023.
- Spring discharge completed from May 10 to June 9. Effluent samples below limits stated in Environmental Compliance Approval (ECA).

CAPITAL PLAN PROGRESS

Drinking Water System

- Fire flow tested 6 hydrants as requested by Public Works.

Wastewater Treatment

- N/A

ASSET MANAGEMENT

See Appendix A - Work Order summary for water treatment plant (WTP)
See Appendix B - Work Order summary for wastewater treatment lagoon (WWTL)

CALL-OUT SUMMARY

See Appendix C – Call-out Report for WTP
See Appendix D – Call-out Report for WWTL

REGULATORY

- All drinking water samples required under O. Regulation 170/03 were collected and tested in the second quarter of 2023 and all results fell within regulatory limits.
- Winter term lead, pH and alkalinity sampling completed April 12, 2023.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed April 11, 2023.
- Off-site external S1 audit completed May 16, 2023, there were no findings identified.
- No Ministry of the Environment, Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections were conducted this quarter.
- Annual internal audit and 36 risk assessment review completed June 7, 2023. Four (4) opportunities for improvement (OFIs) identified and resolved.
- Municipality requested additional services to provide sampling at 3 small well systems: South Himsworth Park Hall in Powassan, Trout Creek Fire Hall & Senior Friendship Club, and Trout Creek Community Centre and Arena.
- Operational Plan updated as per internal/external audit findings.
- All required sewage samples required under the system's ECA collected and tested in the second quarter of 2023.

INCIDENTS AND COMPLAINTS

Powassan Drinking Water System

Incident	N/A
Date	
Details	

Powassan Wastewater System

Incident	Clark Street Sewage Lift Station Bypass
Date	April 5, 2023
Details	Type of incident: Bypass SAC Ref No.: 1-34JTS9 Start Date & Time: April 5, 2023 @ 1400 Termination: April 7, 2023 @ 0100 hrs Duration: 35 hours Approximate volume: 3000 m3 Details: Heavy precipitation and warm temperatures overwhelming pumping station resulting in Bypass. Receiver: Genesee Creek Actions: Super-chlorinated raw sewage entering overflow header with collection of samples and monitoring. Reporting: Verbal reports to MOE SAC and MOH, emailed to EC and MOE SAC as required, also notification made to local MECP inspector Erin Spires and owner via email.

HEALTH AND SAFETY

- Staff training completed on Transportation of Dangerous Goods.
- Staff training completed on Human and Organizational Performance.
- Annual health and safety inspection completed for the water treatment plant.
- Staff training completed on FEP Binder.

POWASSAN DRINKING WATER SYSTEM PERFORMANCE

See Appendix E – Performance Assessment Report Water

POWASSAN WASTEWATER TREATMENT LAGOON – WASTEWATER FLOW SUMMARY

See Appendix F – Performance Assessment Report Wastewater



Appendix A - Work Order Summary for WTP

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 6033*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3292523	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Building Intrusion Alarm Testing (1m) 6033	COMP	4/1/23 12:00 AM	5/2/23 01:30 PM	5/2/23 01:30 PM	Critical Building Intrusion Alarm Testing (1m) 6033 -April 25, 2023. Dan Finnigan performed a test of the well supply building entrance door intrusion alarm by not disarming the alarm when entering the building. This caused an intrusion alarm, which True Steel Alarm Monitoring Service received and notified the on- call operator. This confirms that the building door intrusion alarm is working. DF
3303196	0000296004	GENERATOR NATURAL GAS GENSET McRae Road Reservoir	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	4/1/23 12:00 AM	4/17/23 09:44 PM	4/17/23 09:44 PM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -April 14, 2023 by Dan Finnigan. The oil level was checked and found to be "full", and the air filter was checked and was clean. The main power to the building was disconnected and the generator started without any issues. Power was transferred to the generator a moment later, and all building functionality was returned. After the test period the power to the building was re-instated, and after a cool- down period the generator shut down.
3310275	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 6033	COMP	4/1/23 12:00 AM	6/19/23 01:57 PM	6/19/23 01:57 PM	Critical Alarm/Dialer Testing (1m) 6033 -April 13th and April 14th, 2023. On both of these dates isolating the backflow preventer connected to the POE analyzer resulted in a loss of flow to the analyzer. This caused a drop in the free chlorine residual which in turn activated the low chlorine alarm and the well pump lockouts. The well pumps could not be restarted until the residual was restored.

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Work Order Class:

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3310732			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	4/1/23 12:00 AM	5/2/23 01:31 PM	5/2/23 01:31 PM	Health And Safety Inspection (1m) 6033 -The monthly H&S Inspection was conducted on April 25, 2023 and consisted of checking/verifying the following items: 1. Chemical Apron 2. Face Shield 3. Spill Kit(s) X 2: all items were available 4. Chemical secondary containment (intact) 5. Safety Signage (all intact and visible) 6. First aid kit 7. Hearing protection earmuffs 8. Emergency lighting (all tested and working) 9. Emergency Eyewash (tested and working)
3310834			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	4/1/23 12:00 AM	5/2/23 01:34 PM	5/2/23 01:34 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 -April 25, 2023 by Dan Finnigan. During the monthly low chlorine critical alarm / lockout test the analyzer housing was flushed and inspected for damage and wear, and the electrolyte solution level was checked and topped up. The probe was re-inserted into the housing and a single point verification was conducted with the following results: Online analyzer: 2.30 mg/L Free Cl2 Handheld analyzer: 1.61 mg/L Free Cl2 The online analyzer required adjustment. The new slope after calibration was 2.89 mA/ppm (within spec).

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3312520			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	4/1/23 12:00 AM	5/2/23 01:36 PM	5/2/23 01:36 PM	TPM Inspection/Maintenance (1m) 6033 -April 25, 2023. Reviewed trending to ensure both submersible well pump is operating within normal parameters. Started exhaust fan and observed motorized louvers operating properly. Verified chlorine pump on hand, as well as duty chlorine pump operating satisfactorily.
3312525	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	4/1/23 12:00 AM	5/2/23 01:39 PM	5/2/23 01:39 PM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 -April 25, 2023 by Dan Finnigan. All fluid levels were checked, belts inspected, battery charging system, etc. The generator was started and the electrical load was transferred to generator power successfully, and transferred back to shore power properly when the test was completed. While running, the system was observed for leaks or any other deficiencies. Electrical volts and amps were recorded, along with the following generator values: RPM's = 1791 Exhaust Temp = 670 Deg. F. Oil Level = Full Coolant Temp=154 Deg.F Battery Voltage= 13.7V Oil Pressure 63 psi Fuel level = approximately 4.0 inches Hrs at start: 6581 hr 22 min Hrs at stop: 6582 hr 47 min

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3314493			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	4/1/23 12:00 AM	4/13/23 03:05 PM	4/13/23 03:05 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of March 2023 was completed on April 13, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.
3324392	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	4/1/23 12:00 AM	4/17/23 09:43 PM	4/17/23 09:43 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on April 14, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. The online analyzer did not need calibration. Online = 1.54 mg/L Tested = 1.49 mg/L
3339846			Powassan Ground Water Well System	OPER	Predictive Maintenance	0		Spring 2023 hydrant flushing Powassan	COMP		5/23/23 11:18 AM	5/23/23 11:18 AM	Spring 2023 hydrant flushing Powassan - flush all hydrants in powassan. minor repairs required. oring replacements. hydrant at 325 catherine requires 12" extension. hydrants that need replacing. armstrong, spetz, bridge, main and chisholm. memorial east hyd 13, memorial west hyd 18.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3339847			Powassan Ground Water Well System	CORR	Refurbish/ Replace/Repair	0		new bfp for powassan 6033 potable line	COMP		5/1/23 09:26 AM	5/1/23 09:26 AM	new bfp for powassan 6033 potable line -installed repair kit after back flow preventer failed initial test. the retest resulted in failure of both check valves. possible one or both shutoffs failing. price of new bfp is same as replacing valves. TF april 14/23 install and test - install new dual check valve assembly to replace aging and failing backflow preventer. test and pass new bfp. TF april 28/23
3342773	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Building Intrusion Alarm Testing (1m) 6033	COMP	5/1/23 12:00 AM	5/30/23 08:52 AM	5/30/23 08:52 AM	Critical Building Intrusion Alarm Testing (1m) 6033 -May 26, 2023. Dan Finnigan performed a test of the well supply building entrance door intrusion alarm by not disarming the alarm when entering the building. This caused an intrusion alarm, which True Steel Alarm Monitoring Service received and notified the on-call operator. This confirms that the building door intrusion alarm is working
3353157	0000296004	GENERATOR NATURAL GAS GENSET McRae Road Reservoir	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	5/1/23 12:00 AM	5/24/23 07:40 AM	5/24/23 07:40 AM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -May 19, 2023 by Dan Finnigan. The oil level was checked and found to be "full", and the air filter was checked and was clean. The main power to the building was disconnected and the generator started without any issues. Power was transferred to the generator a moment later, and all building functionality was returned. After the test period the power to the building was re-instated, and after a cool-down period the generator shut down.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3359201	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 6033	COMP	5/1/23 12:00 AM	5/30/23 09:05 AM	5/30/23 09:05 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on May 26, 2023. The Cl2 probe was pulled out of the sample cells to perform a monthly inspection and cleaning and to force an alarm condition for the monthly testing of the low chlorine alarm, the alarm dialer and the well pump interlock lockout. True Steel called to advise they had received an alarm notification re the low chlorine alarm. The Cl2 probe was placed back into the flow thru sample cell after it was inspected, cleaned and the electrolyte topped up. After the low chlorine alarm cleared, the well pump lockout was reset to resume normal operation of the well house. These actions verified proper operation of the low Cl2/instrument alarm, alarm dialer and well pump interlock.

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3359542			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	5/1/23 12:00 AM	5/30/23 09:00 AM	5/30/23 09:00 AM	Health And Safety Inspection (1m) 6033 -The monthly H&S Inspection was conducted on May 26, 2023 and consisted of checking/verifying the following items: 1. Chemical Apron 2. Face Shield 3. Spill Kit(s) X 2: all items were available 4. Chemical secondary containment (intact) 5. Safety Signage (all intact and visible) 6. First aid kit 7. Hearing protection earmuffs 8. Emergency lighting (all tested and working) 9. Emergency Eyewash (tested and working)
3359644			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	5/1/23 12:00 AM	6/21/23 02:30 PM	6/21/23 02:30 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 -Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on June 20, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. A single point calibration was conducted after placing the analyzer probe online. The online analyzer did not need calibration. Online = 1.37 mg/L Tested = 1.42 mg/L

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3360941			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	5/1/23 12:00 AM	5/30/23 09:01 AM	5/30/23 09:01 AM	TPM Inspection/Maintenance (1m) 6033 -May 26, 2023. Reviewed trending to ensure both submersible well pump is operating within normal parameters. Started exhaust fan and observed motorized louvers operating properly. Verified chlorine pump on hand, as well as duty chlorine pump operating satisfactorily.
3360946	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	5/1/23 12:00 AM	5/30/23 08:58 AM	5/30/23 08:58 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 -May 26, 2023 by Dan Finnigan. All fluid levels were checked, belts inspected, battery charging system, etc. The generator was started and the electrical load was transferred to generator power successfully, and transferred back to shore power properly when the test was completed. While running, the system was observed for leaks or any other deficiencies. Electrical volts and amps were recorded, along with the following generator values: RPM's = 1794 Exhaust Temp = 575 Deg. F. Oil Level = Full Coolant Temp=174 Deg.F Battery Voltage= 13.7V Oil Pressure 60 psi Fuel level = approximately 4.0 inches Hrs at start: 6584 hr 57 min Hrs at stop: 6586 hr 12 min

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3362157			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	5/1/23 12:00 AM	7/6/23 01:32 PM	7/6/23 01:32 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of April 2023 was completed on May 04, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.
3370639	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	5/1/23 12:00 AM	5/24/23 07:42 AM	5/24/23 07:42 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on May 19, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. A single point calibration was conducted after placing the analyzer probe online. The online analyzer did not need calibration
3387443			6033, Powassan WTP	CAP	Inspection	0		Powassan: Six Fire Flow Tests	COMP		5/29/23 03:28 PM	5/29/23 03:28 PM	Powassan: 6 Fire Flow Tests - Six fire flow tests conducted on hydrants as requested by Powassan Public Works. -Industrial Park -Memorial and Clark St x 2 -175 Big Bend Ave -Eastholme -Memorial And Joseph Fire flow hydrants - perform fire flow testing on hydrant at joseph and memorial. clark st two directions. industrial park mid block. eastholme and 175 big bend rd. TF May 24/23

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3230290			6033, Powassan WTP	OPER	Health and Safety	1	YEARS	OCWA Annual Workplace Inspection (1Y) 6033	COMP	2/1/23 12:00 AM	6/19/23 09:12 AM	6/19/23 09:12 AM	OCWA Annual Workplace Inspection (1Y) 6033 -June 16, 2023. Dan Finnigan conducted the annual workplace inspection at the Powassan Well House. The workplace inspection form was filled out and once completed emailed to Paul Dyrda and Josh Gravelle.
3388453	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Building Intrusion Alarm Testing (1m) 6033	COMP	6/1/23 12:00 AM	6/21/23 02:31 PM	6/21/23 02:31 PM	Critical Building Intrusion Alarm Testing (1m) 6033 -June 20, 2023. Dan Finnigan performed a test of the well supply building entrance door intrusion alarm by not disarming the alarm when entering the building. This caused an intrusion alarm, which True Steel Alarm Monitoring Service received and notified the on-call operator. This confirms that the building door intrusion alarm is working. DF

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3392628			6033, Powassan WTP	PM	Inspection	1	YEARS	Wells Production Inspection (1y) 6033	COMP	6/1/23 12:00 AM	6/21/23 02:36 PM	6/21/23 02:36 PM	Wells Production Inspection (1y) 6033 -15 May 2023. The well areas of both production wells #1 & #2 were inspected to check for the following: to ensure ground slope is adequate to prevent pooling of water around the well casing, To ensure there are no gaps around the well casing that would permit the entry of water, to ensure the well cap is securely fastened to prevent the entry of foreign material, to ensure screens and or vents are in place - secure and unobstructed, and to ensure the wells were labeled to identify them. To assess the condition of the well casing and discharge pipe the well pumps by turning off the pumps and then listening for leaks. The well area and facility was inspected for any signs of vandalism or unauthorized entry. The Sodium Hypochlorite feed pumps and tubing were check for any signs of leaks. No deficiencies were noted in this visual annual inspection. DF.
3398034	0000296004	GENERATOR NATURAL GAS GENSET McRae Road Reservoir	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	6/1/23 12:00 AM	6/21/23 02:25 PM	6/21/23 02:25 PM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -June 20, 2023 by Dan Finnigan. The oil level was checked and found to be "full", and the air filter was checked and was clean. The main power to the building was disconnected and the generator started without any issues. Power was transferred to the generator a moment later, and all building functionality was returned. After the test period the power to the building was re-instated, and after a cool-down period the generator shut down.

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3404742	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 6033	COMP	6/1/23 12:00 AM	6/19/23 08:41 AM	6/19/23 08:41 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on June 16, 2023. The Cl2 probe was pulled out of the sample cells to perform a monthly inspection and cleaning and to force an alarm condition for the monthly testing of the low chlorine alarm, the alarm dialer and the well pump interlock lockout. True Steel called to advise they had received an alarm notification re the low chlorine alarm. The Cl2 probe was placed back into the flow thru sample cell after it was inspected, cleaned and the electrolyte topped up. After the low chlorine alarm cleared, the well pump lockout was reset to resume normal operation of the well house. These actions verified proper operation of the low Cl2/instrument alarm, alarm dialer and well pump interlock.
3404928			6033, Powassan WTP	OPER	Compliance	1	YEARS	Facility Emergency Plan Review (1y) 6033	COMP	6/1/23 12:00 AM	6/19/23 12:52 PM	6/19/23 12:52 PM	Facility Emergency Plan Review (1y) 6033 -June 07, 2023: Completed the FEP review of all sections with Josh Gravelle during regular DWQMS audit.

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3405076			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	6/1/23 12:00 AM	6/19/23 08:37 AM	6/19/23 08:37 AM	Health And Safety Inspection (1m) 6033 -The monthly H&S Inspection was conducted on June 16, 2023 and consisted of checking/verifying the following items: 1. Chemical Apron 2. Face Shield 3. Spill Kit(s) X 2: all items were available 4. Chemical secondary containment (intact) 5. Safety Signage (all intact and visible) 6. First aid kit 7. Hearing protection earmuffs 8. Emergency lighting (all tested and working) 9. Emergency Eyewash (tested and working)
3405266			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	6/1/23 12:00 AM	6/19/23 08:58 AM	6/19/23 08:58 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - June 16, 2023 by Dan Finnigan. During the monthly low chlorine critical alarm / lockout test the analyzer housing was flushed and inspected for damage and wear, and the electrolyte solution level was checked and topped up. The probe was re-inserted into the housing and a single point verification was conducted with the following results: Online analyzer: 2.15 mg/L Free Cl2 Handheld analyzer: 1.79 mg/L Free Cl2 The online analyzer required adjustment. The new slope after calibration was 2.48 mA/ppm (within spec).

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 6033*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3406830			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	6/1/23 12:00 AM	6/19/23 08:38 AM	6/19/23 08:38 AM	TPM Inspection/Maintenance (1m) 6033 -June 16, 2023. Reviewed trending to ensure both submersible well pump is operating within normal parameters. Started exhaust fan and observed motorized louvers operating properly. Verified chlorine pump on hand, as well as duty chlorine pump operating satisfactorily.
3406844	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	6/1/23 12:00 AM	6/19/23 08:44 AM	6/19/23 08:44 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 - June 16, 2023 by Dan Finnigan. All fluid levels were checked, belts inspected, battery charging system, etc. The generator was started and the electrical load was transferred to generator power successfully, and transferred back to shore power properly when the test was completed. While running, the system was observed for leaks or any other deficiencies. Electrical volts and amps were recorded, along with the following generator values: RPM's = 1785. Oil Level = Full Coolant Temp=174 Deg.F Battery Voltage= 13.7V Oil Pressure 63 psi Fuel level = approximately 4.0 inches Hrs at start: 6631 hr 40 min Hrs at stop:
3408268			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	6/1/23 12:00 AM	6/13/23 11:35 PM	6/13/23 11:35 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of May 2023 was completed on June 13, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 6033*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3418292	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	6/1/23 12:00 AM	6/21/23 02:33 PM	6/21/23 02:33 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 -Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on June 20, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. A single point calibration was conducted after placing the analyzer probe online. The online analyzer did not need calibration. Online = 1.37 mg/L Tested = 1.42 mg/L



Appendix B - Work Order Summary for WWTL

Workorder Summary Report

 Report Start Date: Apr 1, 2023 12:00 AM
 Report End Date: Jun 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3303180	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	COMP	4/1/23 12:00 AM	4/17/23 09:49 PM	4/17/23 09:49 PM	Diesel Generator Inspection/ Functional Test (1m) 5747 -April 14, 2023. Dan Finnigan performed the monthly Generator/ Functional test.. All fluid levels were checked, belts inspected, battery charging system, etc. The generator transfer button was pressed and the start command to the generator was initiated. While running, the system was observed for leaks or any other deficiencies. The following generator values were recorded while running: RPM's= 1805 Oil Level = Full Coolant Temp=180 Deg.F Battery Voltage= 12.0 V Oil Pressure 59 psi Hrs at start: 503.70 Hrs at stop: 504.00
3310169			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	4/1/23 12:00 AM	4/17/23 09:47 PM	4/17/23 09:47 PM	Health And Safety Inspection (1m) 5747 - Dan Finnigan conducted the monthly H&S Inspection on April 06, 2023, which consisted of checking/ verifying the following items: 1. Spill Kit: all items were available 2. Safety Signage (all intact and visible) 3. First aid kit 4. Hearing protection earmuffs 5. Emergency lighting (removed for repair / replacement) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 5747*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3310218			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	4/1/23 12:00 AM	4/17/23 09:46 PM	4/17/23 09:46 PM	TPM Inspection/Maintenance (1m) 5747 -Completed by Dan Finnigan on April 14, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS seemed a little noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report.
3310223			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	4/1/23 12:00 AM	4/17/23 09:53 PM	4/17/23 09:53 PM	Critical Alarm/Dialer Testing (1m) 5747 -On April 06, 2023 the on-call operator was notified via True Steel about a True High Level Alarm. The Alarm light came on and True Steel notified the operator. The high level was caused by a very quick snow melt on a warm day. Once the temperature cooled down the pumps pumped the level down and the alarm light came off and the alarm was reset.
3314498			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	4/1/23 12:00 AM	4/13/23 02:22 PM	4/13/23 02:22 PM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of March 2023 was completed on April 13, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, and this Work Order closed off.

Workorder Summary Report

 Report Start Date: Apr 1, 2023 12:00 AM
 Report End Date: Jun 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3341595			Powassan Wastewater Treatment Lagoon	OPER	Predictive Maintenance	0		Powassan Spring 2023 Lagoon Treatment	COMP		5/15/23 10:29 AM	5/15/23 10:29 AM	Powassan Spring 2023 Lagoon Treatment -On Tuesday May 2, 2023 Don Michaud and Tim Fraser treated Powassan South Lagoon with 1630 Imp/Gallons of Ferric Sulfate. On Tuesday May 2, 2023 Don Michaud and Tim Fraser treated Powassan South Lagoon with 1630 Imp/Gallon - Correction on Log. On Tuesday May 2, 2023 Don Michaud and Tim Fraser treated Powassan North Lagoon with 1630 Imp/Gallons of Ferric Sulfate. Powassan Spring 2023 Lagoon Treatment - On Tues May 9, 2023 Don Michaud and Tim F treated Powassan South Lagoon with 2002 Imp/Gal of Ferric Sulfate.
3353141	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	COMP	5/1/23 12:00 AM	5/15/23 02:13 PM	5/15/23 02:13 PM	Diesel Generator Inspection/ Functional Test (1m) 5747 - Curtis Green performed the monthly Generator/Functional test on April 12, 2023. All fluid levels were checked, belts inspected, battery charging system, etc. The generator transfer button was pressed and the start command to the generator was initiated. While running, the system was observed for leaks or any other deficiencies. The following generator values were recorded while running: RPM's= 1825 Oil Level = Full Coolant Temp=180 Deg.F Battery Voltage= 11.5 V Oil Pressure 54 psi Hrs at start: 504.0 Hrs at stop: 504.7

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 5747*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3359077	0000126968	LAGOON CELL 01 SOUTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747	COMP	5/1/23 12:00 AM	6/19/23 08:27 AM	6/19/23 08:27 AM	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on May 28, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3359087	0000126967	LAGOON CELL 02 NORTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747	COMP	5/1/23 12:00 AM	6/19/23 08:28 AM	6/19/23 08:28 AM	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on May 28, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3359109	0000126969	LAGOON CELL 03 POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747	COMP	5/1/23 12:00 AM	6/19/23 08:28 AM	6/19/23 08:28 AM	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on May 28, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.

Workorder Summary Report

 Report Start Date: Apr 1, 2023 12:00 AM
 Report End Date: Jun 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3359129			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	5/1/23 12:00 AM	5/15/23 02:16 PM	5/15/23 02:16 PM	Health And Safety Inspection (1m) 5747 - Curtis Green conducted the monthly H&S Inspection on April 12, 2023 which consisted of checking/verifying the following items: 1. Spill Kit: all items were available 2. Safety Signage (all intact and visible) 3. First aid kit 4. Hearing protection earmuffs 5. Emergency lighting (not working) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor
3359147			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	5/1/23 12:00 AM	5/15/23 02:18 PM	5/15/23 02:18 PM	TPM Inspection/Maintenance (1m) 5747 - Completed by Curtis Green on April 12, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report.

Workorder Summary Report

 Report Start Date: Apr 1, 2023 12:00 AM
 Report End Date: Jun 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3359152			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	5/1/23 12:00 AM	5/15/23 02:23 PM	5/15/23 02:23 PM	Critical Alarm/Dialer Testing (1m) 5747 -Conducted by Curtis Green on April 12, 2023. Both sewage pumps were turned off in "hand" and the wet well level was allowed to rise until the High Level alarm setpoint was reached (via WIN911). The WIN911 Autodialer was triggered and messaged the operator and both pumps were turned back on to pump down the level. Both sewage pumps were shut off in Auto when the level returned to normal settings in about 20 minutes of pumping.
3362162			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	5/1/23 12:00 AM	5/16/23 04:16 PM	5/16/23 04:16 PM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of April 2023 was completed on May 16, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, and this Work Order closed off.
3385515			Powassan Wastewater Treatment Lagoon	OPER	Compliance	0		Collect Weekend Lagoon Discharge Sample for Release	COMP		5/16/23 10:48 AM	5/16/23 10:48 AM	Collect Weekend Lagoon Discharge Sample for Release - Scheduled overtime for Dan Finnigan collecting weekend lagoon discharge samples required for release.

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 5747*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3398018	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	COMP	6/1/23 12:00 AM	6/7/23 09:23 AM	6/7/23 09:23 AM	Diesel Generator Inspection/ Functional Test (1m) 5747 - June 01, 2023. Dan Finnigan performed the monthly Generator/ Functional test.. All fluid levels were checked, belts inspected, battery charging system, etc. The generator transfer button was pressed and the start command to the generator was initiated. While running, the system was observed for leaks or any other deficiencies. The following generator values were recorded while running: RPM's= 1825 Oil Level = Full Coolant Temp=185 Deg.F Battery Voltage= 11.8 V Oil Pressure 50 psi
3404615	0000126968	LAGOON CELL 01 SOUTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747	COMP	6/1/23 12:00 AM	6/19/23 08:30 AM	6/19/23 08:30 AM	Lagoon Cell 01South Powassan Insp/ Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on June 05, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3404625	0000126967	LAGOON CELL 02 NORTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747	COMP	6/1/23 12:00 AM	6/19/23 08:30 AM	6/19/23 08:30 AM	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on June 05, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 5747*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3404647	0000126969	LAGOON CELL 03 POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747	COMP	6/1/23 12:00 AM	6/19/23 08:31 AM	6/19/23 08:31 AM	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on June 05, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3404662			5747, Powassan WWTL	OPER	Compliance	1	YEARS	Facility Emergency Plan Review (1y) 5747	COMP	6/1/23 12:00 AM	6/27/23 02:55 PM	6/27/23 02:55 PM	Facility Emergency Plan Review (1y) 5747 -Reviewed and updated all sections as per PCT on July 26, 2023
3404663			5747, Powassan WWTL	OPER	Compliance	2	YEARS	Operation/Sop Manual Review And Update (2y) 5747	COMP	6/1/23 12:00 AM	6/27/23 02:58 PM	6/27/23 02:58 PM	Operation/Sop Manual Review And Update (2y) 5747 -Reviewed and updated all sections as per PCT on July 26, 2023
3404670			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	6/1/23 12:00 AM	6/7/23 09:18 AM	6/7/23 09:18 AM	Health And Safety Inspection (1m) 5747 -Dan Finnigan conducted the monthly H&S Inspection on June 01, 2023, which consisted of checking/ verifying the following items: 1. Spill Kit: all items were available 2. Safety Signage (all intact and visible) 3. First aid kit 4. Hearing protection earmuffs 5. Emergency lighting (removed for repair / replacement) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor

Workorder Summary Report

 Report Start Date: Apr 1, 2023 12:00 AM
 Report End Date: Jun 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3404684			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	6/1/23 12:00 AM	6/7/23 09:16 AM	6/7/23 09:16 AM	TPM Inspection/Maintenance (1m) 5747 -Completed by Dan Finnigan on June 01, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS seemed a little noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report.
3404693			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	6/1/23 12:00 AM	6/7/23 09:20 AM	6/7/23 09:20 AM	Critical Alarm/Dialer Testing (1m) 5747 -Conducted by Dan Finnigan on June 01, 2023. Both sewage pumps were turned off in "hand" and the wet well level was allowed to rise until the High Level alarm setpoint was reached (via WIN911). The WIN911 Autodialer was triggered and messaged the operator and both pumps were turned back on to pump down the level. Both sewage pumps were shut off in Auto when the level returned to normal settings in less than 5 minutes of pumping.



Appendix C - Call-out Report for WTP

Workorder Summary Report

Report Start Date: Apr 1, 2023 12:00 AM

Report End Date: Jun 30, 2023 11:59 PM

Location: 6033*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3339697			6033, Powassan WTP	CALL	Compliance	0		Powassan Distribution Watermain Break Assistance	COMP		4/10/23 04:23 PM	4/10/23 06:00 PM	Powassan Distribution Watermain Break Assistance - 16:23--Received a call from Powassan Public Works with a report of water "gushing" out between St Gregory School and the Well House 16:55--Water main leak turned out to be a leaking service inside a customer building. Attempt to find curbstop standpipe to shut off water. 17:30--Unable to locate standpipe. Shut off 10 inch main to school and 10 inch main between wellhouse and school. Isolated the leak at local building for emergency repairs 18:00--New shut off valve installed at customer service line. Opened both distribution valves to watermain feeding customer and St. Gregory School
3433416			6033, Powassan WTP	CALL	Compliance	0		Powassan Well House Aux 3-Pump Fail Alarm	COMP		6/11/23 05:25 PM	6/11/23 06:30 PM	Powassan Well House Aux 3-Pump Fail Alarm - 17:25--Received True Steel notification for alarm: auxiliary three well pump failure. 17:30--Logged into HMI remotely to review Trending and operations. Confirmed well pump #2 has stopped working and well pump #1 is now running. Reservoir is filling. Will monitor remotely. 18:30--Logged onto HMI remotely to review Trending and operations: fill, and drain cycle of reservoir is operating normally. Will reset well pump number two in the morning.



Appendix D - Call-out Report for WWTL

Workorder Summary Report

 Report Start Date: Apr 1, 2023 12:00 AM
 Report End Date: Jun 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CALL,EMER
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3339699			5747, Clark SPS	CALL	Compliance	0		Powassan Clark St. Sewage Stn Well Well High Level	COMP		4/10/23 06:03 PM	4/10/23 09:40 PM	Powassan Clark St. Sewage Stn Well Well High Level - 18:03--Received WIN911 Alarm for Clark Street High Wet Well Level 18:15--Checked Clark Street wet well level: approximately 12 feet below overflow level. No rain forecast for today but mild temperatures contributing to infiltration, etc. 21:40--Reviewed trending online: wet well level is at 7.48 meters and appears to be dropping. Will monitor remotely. Increased WIN911 alarm setpoint to maximum level before "blinking" of signal to prevent reoccurrence of alarms
3341611			5747, Clark SPS	CALL	Inspection	0		5747 Powassan Clark Street SPS High Level Alarm	COMP		4/22/23 02:45 PM	4/22/23 07:15 PM	Powassan Clark Street SPS - Received WIN911 High Level Alarm Clark SPS. Received Monitoring Station High Level Alarm Clark SPS. Clark Station inspection shows Level approximately 1.5 ft from Overflow precipitation subsiding. Flow Rate @ 1986 L/min. Prepared Calcium Hypochlorite in Overflow as Station elevation close to Bypass. Station Level static at 1 ft below Overflow for 30 minute duration. Station level reduced 2.5 ft below Overflow with end to forecast precipitation.



Appendix E - Performance Assessment Report Water

**Powassan Drinking Water System
Performance Assessment Report Water**

From: 01/04/2023 to 30/06/2023

Report extracted 07/14/2023 14:34

Facility: [6033] POWASSAN DRINKING WATER SYSTEM

Works: [220000576]

	04/2023	05/2023	06/2023	<--Total-->	<--Avg-->	<--Max-->	<--Min-->
Flows:							
Raw Flow: Monthly Total - Raw Well 1 (m³)	6510.32	6306.49	6745.43	19562.24			
Raw Flow: Monthly Total - Raw Well 2 (m³)	5181.22	8312.24	5963.42	19456.88			
Raw Flow: Monthly Avg - Raw Well 1 (m³/d)	217.01	203.44	224.85		215.1		
Raw Flow: Monthly Avg - Raw Well 2 (m³/d)	172.71	268.14	198.78		213.21		
Raw Flow: Monthly Max - Raw Well 1 (m³/d)	414.53	340.18	477.04			477.04	
Raw Flow: Monthly Max - Raw Well 2 (m³/d)	301.58	2454.25	297.91			2454.25	
Raw Flow: Monthly Total - Raw Water - Total (m³)	11691.54	14618.73	12708.85	39019.12			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	389.72	471.57	423.63		428.31		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	460.64	2572.55	725.17			2572.55	
Turbidity:							
Raw: Max Turbidity - Raw Well 1 (NTU)	0.12	0.12	0.11			0.12	
Raw: Max Turbidity - Raw Well 2 (NTU)	0.13	0.13	0.21			0.21	
Chemical Parameters:							
Treated: Max Nitrite - TW1 (mg/L)	< 0.003					< 0.003	
Treated: Max Nitrate - TW1 (mg/L)	0.85					0.85	
Distribution: Max THM - Distribution (µg/l)	1.8					1.8	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - Treated Water (mg/L)	0.988	0.966	0.939				0.939
Treated: Max Free Cl2 Resid - Treated Water (mg/L)	2.503	2.072	2.906			2.906	
Dist: Min Free Cl2 Resid - Distribution (mg/L)	1.48	1.41	1.39				1.39
Dist: Max Free Cl2 Resid - Distribution (mg/L)	1.89	1.82	1.82			1.89	
Bacti Samples Collected:							
Raw Bacti: # of samples - Raw Well 1	4	5	4	13			
Raw Bacti: # of samples - Raw Well 2	4	5	4	13			
Treated Bacti: # of samples - TW1	3	2	2	7			
Treated Bacti: # of samples - TW2	1	3	2	6			
Dist Bacti: # of samples - Distribution	12	16	12	40			
Treated Bacti: # of TC exceedances - TW1	0	0	0	0			
Treated Bacti: # of TC exceedances - TW2	0	0	0	0			
Treated Bacti: # of EC exceedances - TW1	0	0	0	0			
Treated Bacti: # of EC exceedances - TW2	0	0	0	0			
Dist Bacti: # of TC exceedances - Distribution	0	0	0	0			
Dist Bacti: # of EC exceedances - Distribution	0	0	0	0			



Appendix F - Performance Assessment Report Wastewater

5747 POWASSAN WASTEWATER TREATMENT LAGOON 110000613

	4 / 2023	5/ 2023	6/ 2023	<--Total-->	<--Avg-->	<--Max-->
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Flows

Raw Flow: Total - Raw m³/d	32,156.20	19,780.10	14,068.50	66,004.80		
Raw Flow: Total - St Gregory m³/d	701.20	594.60	521.60	1,817.40		
Raw Flow: Total - Clark Street m³/d	31,455.00	19,185.50	13,546.90	64,187.40		
Raw Flow: Avg - Raw m³/d	1,071.87	638.07	468.95		725.33	
Raw Flow: Avg - St Gregory m³/d	23.37	19.18	17.39		19.97	
Raw Flow: Avg - Clark Street m³/d	1,048.50	618.89	451.56		705.36	
Raw Flow: Max - Raw m³/d	1,896.10	1,326.50	878.90			1,896.10
Raw Flow: Max - St Gregory m³/d	42.60	25.30	28.20			42.60
Raw Flow: Max - Clark Street m³/d	1,853.50	1,301.20	850.70			1,853.50
Raw Flow: Count - Raw m³/d	30.00	31.00	30.00	91.00		
Raw Flow: Count - St Gregory m³/d	30.00	31.00	30.00	91.00		
Raw Flow: Count - Clark Street m³/d	30.00	31.00	30.00	91.00		
Eff. Flow: Total - Eff North m³/d	0.00	70,250.18	0.00	70,250.18		
Eff. Flow: Total - Eff South m³/d	0.00	31,100.33	35,247.02	66,347.35		
Eff. Flow: Avg - Eff North m³/d	0.00	4,683.35	0.00		4,683.35	
Eff. Flow: Avg - Eff South m³/d	0.00	3,887.54	3,916.34		3,902.79	
Eff. Flow: Max - Eff North m³/d	0.00	5,017.86	0.00			5,017.86
Eff. Flow: Max - Eff South m³/d	0.00	4,146.69	4,146.69			
Eff Flow: Count - Eff North m³/d	0.00	15.00	0.00	15.00		
Eff Flow: Count - Eff South m³/d	0.00	8.00	9.00	17.00		

Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Eff North mg/L	0.00	< 8.40	0.00		< 8.40	< 8.40
Eff: Avg cBOD5 - Eff South mg/L	0.00	18.00	8.33		12.20	18.00
Eff: # of samples of cBOD5 - Eff North	0.00	5.00	0.00	5.00		
Eff: # of samples of cBOD5 - Eff South	0.00	2.00	3.00	5.00		
Loading: cBOD5 - Eff North kg/d	0.000	< 39.340	0.000		< 39.34	< 39.34
Loading: cBOD5 - Eff South kg/d	0.000	69.976	32.636		57.14	69.98

Biochemical Oxygen Demand: BOD5

Powassan Wastewater Treatment Lagoon
Performance Assessment Report
From 01/04/2023 to 30/06/2023

Raw: Avg BOD5 - Raw mg/L	81.00	241.00	187.00		169.67	241.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	3.00		

Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	114.00	215.00	135.00		154.67	215.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	3.00		
Eff: Avg TSS - Eff North mg/L	0.00	18.20	0.00		18.20	18.20
Eff: Avg TSS - Eff South mg/L	0.00	16.00	13.33		14.40	16.00
Eff: # of samples of TSS - Eff North	0.00	5.00	0.00	5.00		
Eff: # of samples of TSS - Eff South	0.00	2.00	3.00	5.00		
Loading: TSS - Eff North kg/d	0.000	85.237	0.000		85.24	85.24
Loading: TSS - Eff South kg/d	0.000	62.201	52.218		67.44	62.20
Percent Removal: TSS - Eff North %	0.00	91.53	0.00			91.53
Percent Removal: TSS - Eff South %	0.00	92.56	90.12			92.56

Total Phosphorus: TP

Raw: Avg TP - Raw mg/L	1.18	4.68	3.08		2.98	4.68
Raw: # of samples of TP - Raw	1.00	1.00	1.00	3.00		
Eff: Avg TP - Eff North mg/L	0.00	0.22	0.00		0.22	0.22
Eff: Avg TP - Eff South mg/L	0.00	0.16	0.66		0.46	0.66
Eff: # of samples of TP - Eff North	0.00	5.00	0.00	5.00		
Eff: # of samples of TP - Eff South	0.00	2.00	3.00	5.00		
Loading: TP - Eff South kg/d	0.000	0.622	2.572		2.14	2.57
Percent Removal: TP - Eff North %	0.00	95.26	0.00			95.26
Percent Removal: TP - Eff South %	0.00	96.58	78.68			96.58

Nitrogen Series

Raw: Avg TKN - Raw mg/L	9.80	25.50	29.70		21.67	29.70
Raw: # of samples of TKN - Raw	1.00	1.00	1.00	3.00		
Eff: Avg TAN - Eff North mg/L	0.00	9.46	0.00		9.46	9.46
Eff: Avg TAN - Eff South mg/L	0.00	5.40	9.83		8.06	9.83
Eff: # of samples of TAN - Eff North	0.00	5.00	0.00	5.00		
Eff: # of samples of TAN - Eff South	0.00	2.00	3.00	5.00		
Loading: TAN - Eff North kg/d	0.000	44.304	0.000		44.30	44.30

Powassan Wastewater Treatment Lagoon
 Performance Assessment Report
 From 01/04/2023 to 30/06/2023

Loading: TAN - Eff South kg/d

0.000	20.993	38.511		37.75	38.51
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Disinfection

Eff: GMD E. Coli - Eff North cfu/100mL

0.00	10.90	0.00			
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Eff: GMD E. Coli - Eff South cfu/100mL

0.00	6.32	4.31			
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Eff: # of samples of E. Coli - Eff North

0.00	5.00	0.00	5.00		
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Eff: # of samples of E. Coli - Eff South

0.00	2.00	3.00	5.00		
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