

# *Bruce Mines Lagoons*

## *Annual Operating Report*

*ECA 3-0019-90-006*  
*Issued November 22, 1990*

*January 1, 2020 – December 31, 2020*

Prepared by the Ontario Clean Water Agency  
For Corporation of The Town of Bruce Mines



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**



## **SECTION 1: INTRODUCTION**

The Ontario Clean Water Agency (OCWA) acts as the operating authority for the Bruce Mines wastewater treatment. This document is prepared by OCWA in accordance with Environmental Compliance Approval (ECA) #3-0019-90-006. The report is required to include the following information:

- (i) An executive summary;
- (ii) A tabulation of all sample results including how and where the sample was taken;
- (iii) A tabulation of discharge volumes, including average daily flows for periods reported;
- (iv) A comprehensive interpretation of sewage works effluent loadings and concentrations data for the reporting period;
- (v) An overview of the sludge disposal program including tabulation of quantity of sludge and the disposal areas used during the period being reported upon, together with an outline of the proposed sludge handling methods and disposal areas to be utilized over the next reporting period;
- (vi) A description of any emergency or upset which occurred during the period being reported upon.

## **SECTION 2: Description of Facility**

Capacity of Facility: 567 m<sup>3</sup> / day (average flow)  
Service Area: Town of Bruce Mines  
Service Population: 670  
Effluent Receiver: Sucker Creek  
Major Process: Facultative Lagoons – 2 cells  
Facility Classification: Wastewater Class 1  
Collection Classification:

## **SECTION 3: Executive Summary**

The spring seasonal discharge was completed between [May 1](#) and [May 14](#) and consisted of a total volume of [111,305 m<sup>3</sup>](#). Both the east and west cells were discharged from [May 1](#) to [May 14](#). Cells do not require treatment prior to being discharged.

Sampling parameters were **exceeded** for TSS during the spring discharge. Loading limits were **not exceeded** during the spring discharge.

The autumn seasonal discharge was completed between [Nov 1](#) and [Nov 12](#) and consisted of a total volume of [79,532 m<sup>3</sup>](#). Both the east and west cells were discharged from [Nov 1](#) to [Nov 12](#). Cells do not require treatment prior to being discharged.

Sampling parameters were **not exceeded** during the autumn discharge. Loading limits were **not exceeded** during the autumn discharge.



The total effluent discharge from the lagoons for the year was 190,837 m<sup>3</sup>.

The average raw daily sewage flows (511.84m<sup>3</sup>/d) were approximately 90 % of the rated capacity; therefore, the process flows were maintained below the rated capacity of the facility's ECA. The total raw sewage flow into the lagoons for the year was calculated to be 187,332.3m<sup>3</sup>.

There were no additional spills, upsets, environmental or operating problems encountered during 2020.

Sludge was not removed from the lagoon in 2020 and it is anticipated that none be removed in 2021.

## **SECTION 4: Process Data**

The facility operator collects grab samples of raw sewage and sends them to an accredited laboratory for analysis. Raw flows are calculated using pump run times and flow rates.

Raw (Influent) Sampling					
Parameter	Frequency	Method	Results		
			Min	Avg	Max
BOD <sub>5</sub> (mg/L)	Monthly	Grab – External Analysis (Lab)	16	100.7	194
TSS (mg/L)	Monthly	Grab – External Analysis (Lab)	22	118.3	249
TP (mg/L)	Monthly	Grab – External Analysis (Lab)	0.66	2	4.4
Flow (m <sup>3</sup> /d)	Daily	Engineered Calculation	56.73	511.84	1,775.37

The facility operator collects effluent samples and sends them to an accredited laboratory for analysis for every 0.5m of drawdown. Effluent volumes are estimated by measuring drawdown levels and total volume of cell.

Treated (Effluent) Sampling		
Parameter	Frequency	Method
BOD <sub>5</sub>	Every 0.5 m during discharge	Grab – External Analysis (Lab)
TSS	Every 0.5 m during discharge	Grab – External Analysis (Lab)
TP	Every 0.5 m during discharge	Grab – External Analysis (Lab)
H <sub>2</sub> S	Every 0.5 m during discharge	Grab – External Analysis (Lab)
TAN	Every 0.5 m during discharge	Grab – External Analysis (Lab)
Flow	Daily during discharge	Estimate based on level measurements

Compliance limits are based on seasonal discharges for effluent concentrations and effluent loadings. Values are calculated by combining east and west cell results for each discharge period. In addition, the discharge shall not contain oil or other substance in amounts sufficient to create a visible film and shall be essentially free of floating and settleable solids.

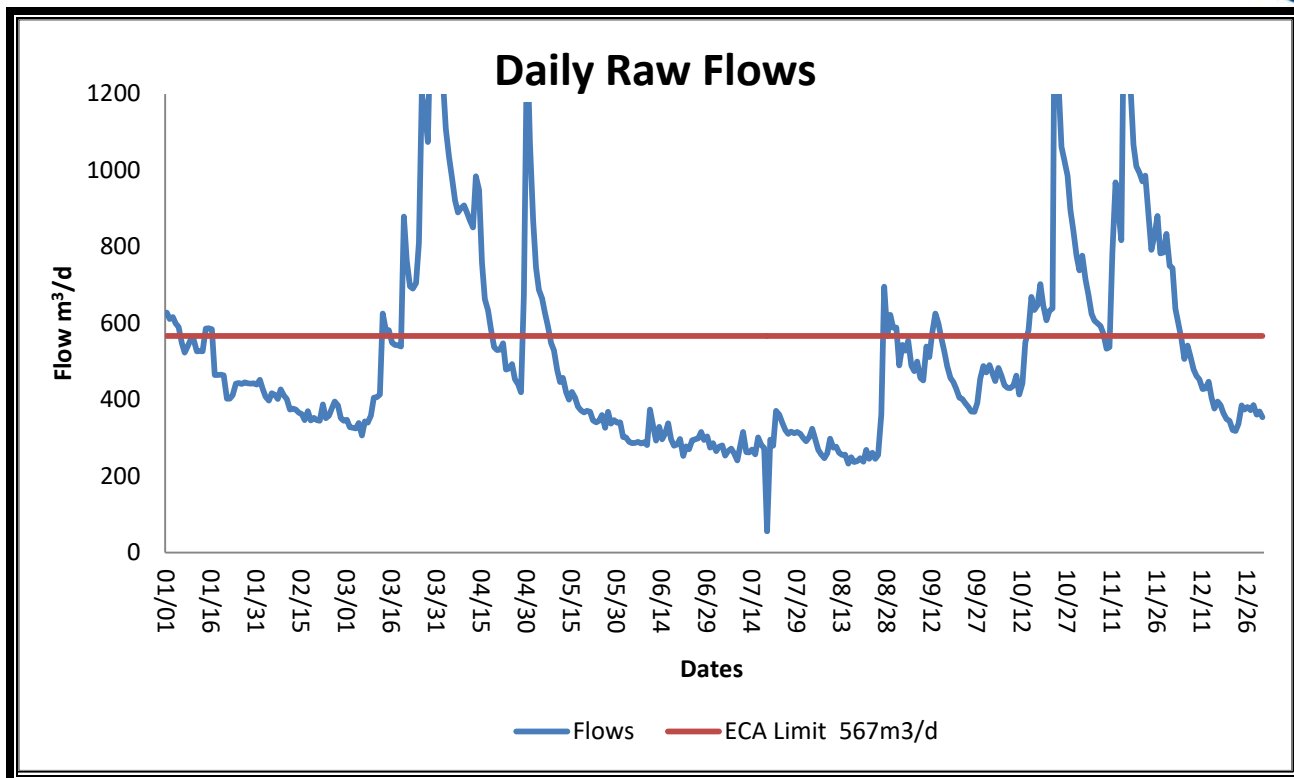


Treated (Effluent Discharge) Sampling - Concentration							
Parameter	Spring Discharge			Autumn Discharge			Concentration Compliance
	Min	Avg	Max	Min	Avg	Max	
BOD <sub>5</sub> (mg/L)	4	11	19	4	4.6	6	25 mg/L
TSS (mg/L)	10	25.1	42	4	11.3	20	25 mg/L
TP (mg/L)	0.24	0.67	1.29	0.21	1.21	2.20	N/A
H <sub>2</sub> S (mg/L)	0.02	0.02	0.02	0.02	0.02	0.02	N/A
TAN (mg/L)	0.10	0.93	3.50	0.10	4.59	8.30	N/A

Treated (Effluent Discharge) Sampling - Loading			
Parameter	Spring Discharge	Autumn Discharge	Loading Compliance
BOD <sub>5</sub> (kg/d)	87.45	30.65	259 kg/day
TSS (kg/d)	199.75	74.56	259 kg/day

The raw and effluent parameters specified in the above table are analyzed by SGS Lakefield Research, an accredited laboratory located in Lakefield, Ontario.

Flow Volumes				
Month	Total Volume (m <sup>3</sup> )	Avg Daily Flow (m <sup>3</sup> /d)	Peak Daily Flow (m <sup>3</sup> /d)	Discharge Volumes (m <sup>3</sup> )
January	15,734.35	507.56	627.89	
February	11,073.46	381.84	452	
March	20,303.76	654.85	1,450.81	
April	23,395.08	779.84	1,351.29	
May	14,678.19	473.49	1,071.36	111,305
June	8,928	297.6	374.79	
July	8,803.38	283.98	371.07	
August	10,022.61	323.31	695.64	
September	14,376.87	479.23	625.89	
October	21,078.45	679.95	1,775.37	
November	25,555.47	851.85	1,568.91	79,532
December	13,381.7	431.7	744.93	
<b>Total</b>	187,332.3			190,837
<b>Average</b>		511.84		
<b>Maximum</b>			1,775.37	



Year	Total Raw Flow (m <sup>3</sup> /d)	Avg Raw Day Flow (m <sup>3</sup> /d)	Max Raw Day Flow (m <sup>3</sup> /d)	Avg Day % of Rated Capacity (567 m <sup>3</sup> /d)
2020	187,332.3	511.84	1,775.37	90%
2019	200,449.5	549.18	1,765.52	96.8%
2018	170,195	507.3	1,341.96	89.5%
2017	210,755.9	557.41	1,602.1	101.8 %

Although max day flows exceeded the average day rated capacity; the ECA stipulates that the average day flow can't be exceeded for more than 180 consecutive days. Upon reviewing the data, it was determined that the flows did not exceed for more than 180 consecutive days.

The average raw daily sewage flows (511.84m<sup>3</sup>/d) were approximately 90 % of the rated capacity. The highest recorded peak flow occurred in October with a peak rate of 1,775.37 m<sup>3</sup>/d and was approximately 313 % of the rated capacity.

The total raw sewage flow into the lagoons for the year was calculated to be 187,332.3m<sup>3</sup>.

Peak flows observed throughout winter months are attributed to residents who run their water taps to ensure their pipes do not freeze during cold weather. In March and April, it is believed the spring freshet is responsible for the higher than normal flows.

Seasonal discharges took place during spring and autumn.



The spring seasonal discharge was completed between [May 1](#) and [May 14](#) over a 15 day period and consisted of a total volume of [111,305m<sup>3</sup>](#). The east and west cells were discharged simultaneously from [May 1](#) to [May 14](#).

The autumn seasonal discharge was completed between [Nov 1](#) and [Nov 12](#) over a 12 day period and consisted of a total volume of [79,532 m<sup>3</sup>](#). The east and west cells were discharged simultaneously from [Nov 1](#) to [Nov 12](#).

The seasonal average for TSS was 25.1mg/L. A review is being done in order to ascertain the reason for the high TSS value. Operational staff did complain of green colouring in the lagoon and it is believed that algae has played a role in the high TSS value. All other seasonal concentration compliance limits as well as seasonal loading limits were met during the spring and autumn discharges.

The operator did not observe any free of floating and settleable solids nor did he notice any effluent which contained oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters.

A total volume of [190,837m<sup>3</sup>](#) was discharged in [2020](#).

In an effort to meet the effluent objectives, the lagoon can be treated with Ferric Sulphate prior to discharge. However, this is not required for this facility.

Based on the above monitoring program and sampling records, the sewage works provided adequate treatment within the required average daily flows while providing a quality effluent.

Refer to [Appendix A](#) for the seasonal lagoon discharge reports.

## **SECTION 5: Facility Upsets & Non Compliances**

The seasonal average for TS was 25.1mg/L. A review is being done in order to ascertain the reason for the high TSS value. Operational staff did complain of green colouring in the lagoon and it is believed that algae has played a role in the high TSS value. All other seasonal concentration compliance limits as well as seasonal loading limits were met during the spring discharge. There were no additional spills, upsets, environmental or operating problems encountered during [2020](#).

## **SECTION 6: Maintenance**

Plant maintenance is monitored using a Work Management System (WMS). Maintenance reports are attached as [Appendix B](#). Major maintenance is listed in the table below.



<b>Work Order</b>	<b>Completion Date</b>	<b>Comment</b>
1707951	20-Oct-20	Purchased and installed new submersible pump at main lift station
1748421	29-Dec-20	Repaired spare pump for Taylor St. lift station

## **SECTION 7: Sludge**

There was no sludge removed from the lagoon for this reporting period. It is projected that there will be no sludge removed from the lagoon for the next reporting period



# Appendix A

## Seasonal Lagoon Discharge Reports



# Release Report for the Bruce Mines Lagoons

ORG# 5934

Spring

2020

DWS # 110001756

East Cell	Date of Sample	BOD <sub>5</sub>	TP	TSS	pH	TAN	NO <sub>2</sub>	NO <sub>3</sub>	Sulphide	H <sub>2</sub> S	CBOD (WSER)
		mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample 1	01-May-20	13.0	1.29	10.0	7.47	3.50			0.02	0.02	
Sample 2	05-May-20	12.0	0.96	14.0	7.80	1.40			0.02	0.02	
Sample 3	11-May-20	19.0	0.77	39.0	7.38	0.10			0.02	0.02	17.00
Sample 4	14-May-20	18.0	0.83	42.0	8.40	0.10			0.02	0.02	
Sample 5											
Sample 6											

West Cell	Date of Sample	BOD <sub>5</sub>	TP	TSS	pH	TAN	NO <sub>2</sub>	NO <sub>3</sub>	Sulphide	H <sub>2</sub> S	CBOD (WSER)
		mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample 1	01-May-20	7.0	0.56	14.0	7.12	1.60			0.02	0.02	
Sample 2	05-May-20	7.0	0.44	21.0	7.15	0.50			0.02	0.02	
Sample 3	11-May-20	4.0	0.24	25.0	7.60	0.10			0.02	0.02	5.0
Sample 4	14-May-20	8.0	0.28	36.0	8.70	0.10			0.02	0.02	
Sample 5											
Sample 6											

	BOD <sub>5</sub>	TP	TSS	pH	TAN	NO <sub>2</sub>	NO <sub>3</sub>	Sulphide	H <sub>2</sub> S	CBOD (WSER)
East cell average concentration	15.5	0.96	26.3	7.76	1.28	#DIV/0!	#DIV/0!	0.02	0.02	17.0
West cell average concentration	6.5	0.38	24.0	7.64	0.58	#DIV/0!	#DIV/0!	0.02	0.02	5.0
Seasonal average concentration	<b>11.0</b>	<b>0.67</b>	<b>25.1</b>	<b>7.70</b>	<b>0.93</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.02</b>	<b>0.02</b>	<b>11.0</b>
Compliance limits as per ECA	25 mg/L		25 mg/L							25 mg/L
Seasonal average loadings	<b>87.45</b>		<b>199.75</b>							
Loading limits as per ECA	259 kg/d		259 kg/d							

Notes:

Compliance is based on seasonal average concentrations

Two cell seasonal retention lagoon

East cell:  $33,400\text{m}^2 \times 1.5 \text{ m depth} = 50,100 \text{ m}^3$

west cell:  $33,800\text{m}^2 \times 1.5 \text{ m depth} = 51,545 \text{ m}^3$

WSER requirements: CBOD<sub>5</sub> is tested at least 1 time per discharge (or bi-weekly is discharge > 30 days)

WSER requirements: CBOD<sub>5</sub> = Annual average of 25 mg/L

East Cell

Date Release Started:	01-May-20
Date Release Stopped:	14-May-20
# Discharge Days:	14

Amount of Chemical Used (IMPG):	0
Volume of Discharge (m <sup>3</sup> ):	59,388

West Cell

Date Release Started:	01-May-20
Date Release Stopped:	14-ay-20
# Discharge Days:	14

Amount of Chemical Used (IMPG):	0
Volume of Discharge (m <sup>3</sup> ):	51,917

Total # of Discharge Days	14
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Total Discharge Volume (m <sup>3</sup> ):	111,305
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# Release Report for the Bruce Mines Lagoons

ORG# 5934

Fall

2020

DWS # 110001756

East Cell	Date of Sample	BOD <sub>5</sub>	TP	TSS	pH	TAN	NO <sub>2</sub>	NO <sub>3</sub>	Sulphide	H <sub>2</sub> S	CBOD (WSER)
		mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample 1	01-Nov-20	6.0	1.79	6.0	7.57	6.80			0.02	0.02	3.00
Sample 2	05-Nov-20	4.0	2.04	5.0	7.14	8.10			0.02	0.02	
Sample 3	09-Nov-20	4.0	2.20	4.0	7.52	8.30			0.02	0.02	
Sample 4	12-Nov-20	4.0	1.89	7.0	7.23	8.10			0.02	0.02	
Sample 5											
Sample 6											

West Cell	Date of Sample	BOD <sub>5</sub>	TP	TSS	pH	TAN	NO <sub>2</sub>	NO <sub>3</sub>	Sulphide	H <sub>2</sub> S	CBOD (WSER)
		mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample 1	01-Nov-20	4.0	0.20	14.0	6.9	0.90			0.02	0.02	4.0
Sample 2	05-Nov-20	4.0	0.30	14.0	7.29	1.00			0.02	0.02	
Sample 3	09-Nov-20	6.0	1.04	20.0	7.58	3.40			0.02	0.02	
Sample 4	12-Nov-20	5.0	0.21	20.0	7.43	0.10			0.02	0.02	
Sample 5											
Sample 6											

	BOD <sub>5</sub>	TP	TSS	pH	TAN	NO <sub>2</sub>	NO <sub>3</sub>	Sulphide	H <sub>2</sub> S	CBOD (WSER)
East cell average concentration	4.5	1.98	5.5	7.37	7.83	#DIV/0!	#DIV/0!	0.02	0.02	3.0
West cell average concentration	4.8	0.44	17.0	7.30	1.35	#DIV/0!	#DIV/0!	0.02	0.02	4.0
Seasonal average concentration	<b>4.6</b>	<b>1.21</b>	<b>11.3</b>	<b>7.33</b>	<b>4.59</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>0.02</b>	<b>0.02</b>	<b>3.5</b>
Compliance limits as per ECA	25 mg/L		25 mg/L							25 mg/L
Seasonal average loadings	<b>30.65</b>		<b>74.56</b>							
Loading limits as per ECA	259 kg/d		259 kg/d							

Notes:

Compliance is based on seasonal average concentrations

Two cell seasonal retention lagoon

East cell:  $33,400\text{m}^2 \times 1.5 \text{ m depth} = 50,100 \text{ m}^3$

west cell:  $33,800\text{m}^2 \times 1.5 \text{ m depth} = 51,545 \text{ m}^3$

WSER requirements: CBOD<sub>5</sub> is tested at least 1 time per discharge (or bi-weekly is discharge > 30 days)

WSER requirements: CBOD<sub>5</sub> = Annual average of 25 mg/L

East Cell

Date Release Started: 01-Nov-20  
 Date Release Stopped: 12-Nov-20  
 # Discharge Days: 12

Amount of Chemical Used (IMPG): 0  
 Volume of Discharge (m<sup>3</sup>): 44,967

West Cell

Date Release Started: 01-Nov-20  
 Date Release Stopped: 12-Nov-20  
 # Discharge Days: 12

Amount of Chemical Used (IMPG): 0  
 Volume of Discharge (m<sup>3</sup>): 34,565

Total # of Discharge Days: 12

Total Discharge Volume (m<sup>3</sup>): 79,532



# Appendix B

## Plant Maintenance

## Workorder Summary Report

Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1648581</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	3/1/20 12:00 AM	3/2/20 02:00 PM	3/2/20 02:00 PM	- Checked work area and could not see any hazardous condition that would affect a workers safety. No action required but we should be diligent in being watchful for hazards. Lights working normal so no tripping hazards seen and hearing protection signs were noted along with some hearing protection was available for use. Signage showing slippery when wet are located throughout plant to prevent any injury. Checked that all fire extinguishers were ready for use, Checked eye wash station and it was ready to be used.
<a href="#">1568653</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	1/1/20 12:00 AM	1/7/20 01:53 PM	1/7/20 01:53 PM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site, Fire extinguisher are ready for use, eye wash station is ready for use.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1568664</a>			5934, Bruce Mines WWTP & CS	OPER	Health and Safety	1	YEARS	Workplace Inspection (1y) 5934 - SEE ATTACHED DOC	CLOSE	1/1/20 12:00 AM	1/20/20 01:01 PM	1/20/20 01:01 PM	- Completed work place inspection report. Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own wellbeing or the safety of others. Report provided to manager.
<a href="#">1568666</a>			5934, Bruce Mines WWTP & CS	OPER	Health and Safety	1	YEARS	WHMIS/MSDS/NSF Review And Update (1y) 5934	CLOSE	1/1/20 12:00 AM	1/7/20 01:52 PM	1/7/20 01:52 PM	- No chemicals are used and therefore no MSDS are required. WHMIS is practiced where applicable.
<a href="#">1609482</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	2/1/20 12:00 AM	2/3/20 02:47 PM	2/3/20 02:47 PM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site, Fire extinguisher are ready for use, eye wash station is ready for use.

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 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1819187</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	7/1/20 12:00 AM	7/13/20 11:43 AM	7/13/20 11:43 AM	- Checked work area and could not see any hazardous condition that would affect a workers safety. No action required but we should be diligent in being watchful for hazards. Lights working normal so no tripping hazards seen and hearing protection signs were noted along with some hearing protection was available for use. Signage showing slippery when wet are located throughout plant to prevent any injury. Checked that all fire extinguishers were ready for use, Checked eye wash station and it was ready to be used.
<a href="#">1859955</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	8/1/20 12:00 AM	8/5/20 08:41 AM	8/5/20 08:41 AM	- Checked work area and could not see any hazardous condition that would affect a workers safety. No action required but we should be diligent in being watchful for hazards. Lights working normal so no tripping hazards seen and hearing protection signs were noted along with some hearing protection was available for use. Signage showing slippery when wet are located throughout plant to prevent any injury. Checked that all fire extinguishers were ready for use, Checked eye wash station and it was ready to be used.



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 Report Start Date: Jan 1, 2020 12:00 AM  
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				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
<a href="#">1900178</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	9/1/20 12:00 AM	9/1/20 10:18 AM	9/1/20 10:18 AM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site, Fire extinguisher are ready for use, eye wash station is ready for use.
<a href="#">1691688</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	4/1/20 12:00 AM	4/7/20 01:17 PM	4/7/20 01:17 PM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site, Fire extinguisher are ready for use, eye wash station is ready for use.
<a href="#">1734648</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	5/1/20 12:00 AM	5/6/20 02:39 PM	5/6/20 02:39 PM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site, Fire extinguisher are ready for use, eye wash station is ready for use.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1777537</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	6/1/20 12:00 AM	6/4/20 09:20 AM	6/4/20 09:20 AM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site. Fire extinguisher are ready for use, eye wash station is ready for use.
<a href="#">1985062</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	11/2/20 12:00 AM	11/5/20 12:31 PM	11/5/20 12:31 PM	- Checked work area and could not see any hazardous condition that would affect a workers safety. No action required but we should be diligent in being watchful for hazards. Lights working normal so no tripping hazards seen and hearing protection signs were noted along with some hearing protection was available for use. Signage showing slippery when wet are located throughout plant to prevent any injury. Checked that all fire extinguishers were ready for use, Checked eye wash station and it was ready to be used.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1944691</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	CLOSE	10/1/20 12:00 AM	10/8/20 10:10 AM	10/8/20 10:10 AM	- Health And Safety Inspection completed by walking around and looking for anything that maybe a hazard. No hazard could be identified that could affect our own well being or the safety of others. First aid kits on site are in plan site. Fire extinguisher are ready for use. eye wash station is ready for use.
<a href="#">2023467</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5934	COMP	12/1/20 12:00 AM	12/7/20 08:41 AM	12/7/20 08:41 AM	
<a href="#">2023478</a>			5934, Bruce Mines WWTP & CS	PM	Health and Safety	1	YEARS	Fire Protection System Inspection (1y) 5934	COMP	12/1/20 12:00 AM	12/14/20 02:29 PM	12/14/20 02:29 PM	-Fire Extinguishers are in place and are ready for use. Outside contractor to check annually was unable to come due to Covid19.
<a href="#">1897922</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	9/1/20 12:00 AM	9/3/20 08:29 AM	9/3/20 08:29 AM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions. Completed all entries for distribution free cl residuals and completed calculation for dosages for Free Chlorine and Alum coagulation injections
<a href="#">1857675</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	8/1/20 12:00 AM	8/4/20 02:34 PM	8/4/20 02:34 PM	- Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1817352</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	7/1/20 12:00 AM	7/6/20 02:09 PM	7/6/20 02:09 PM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">1732498</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	5/1/20 12:00 AM	5/6/20 02:38 PM	5/6/20 02:38 PM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">1774563</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	6/1/20 12:00 AM	6/1/20 02:34 PM	6/1/20 02:34 PM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">1690133</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	4/1/20 12:00 AM	4/1/20 08:40 AM	4/1/20 08:40 AM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">2021810</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	COMP	12/1/20 12:00 AM	12/7/20 08:39 AM	12/7/20 08:39 AM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1983653</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	11/2/20 12:00 AM	11/10/20 11:31 AM	11/10/20 11:31 AM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">1942823</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	10/1/20 12:00 AM	10/1/20 10:12 AM	10/1/20 10:12 AM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">1646888</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	3/1/20 12:00 AM	3/4/20 09:18 AM	3/4/20 09:18 AM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.
<a href="#">1608118</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	2/1/20 12:00 AM	2/3/20 02:49 PM	2/3/20 02:49 PM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions. Noted to pct that some data was missing they were looking into it.
<a href="#">1567009</a>			5934, Bruce Mines WWTP & CS	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5934	CLOSE	1/1/20 12:00 AM	1/7/20 01:55 PM	1/7/20 01:55 PM	-Reviewed WHISKI data. Looked for any discrepancies for the previous month. Data that was seen to be incorrect was corrected by operator and or reported to PCT and helpdesk.. Wonderware is checked for data loss from server disruptions.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1734675</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	5/1/20 12:00 AM	5/6/20 02:40 PM	5/6/20 02:40 PM	
<a href="#">1691715</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	4/1/20 12:00 AM	4/7/20 01:16 PM	4/7/20 01:16 PM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware.
<a href="#">1985089</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	11/2/20 12:00 AM	11/10/20 11:33 AM	11/10/20 11:33 AM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware.
<a href="#">1859982</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	8/1/20 12:00 AM	8/5/20 08:42 AM	8/5/20 08:42 AM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1819214</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	7/1/20 12:00 AM	7/13/20 11:41 AM	7/13/20 11:41 AM	-MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware
<a href="#">1609509</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	2/1/20 12:00 AM	2/4/20 02:45 PM	2/4/20 02:45 PM	-MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware.
<a href="#">1568689</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	1/1/20 12:00 AM	1/7/20 01:54 PM	1/7/20 01:54 PM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1777564</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	6/1/20 12:00 AM	6/17/20 08:49 AM	6/17/20 08:49 AM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware.
<a href="#">1648592</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	YEARS	Electrical Equipment Inspection/ Service (1y) 5934 Bruce Mines WW	COMP	3/1/20 12:00 AM	12/30/20 01:30 PM	12/30/20 01:30 PM	-Was not completed. Scheduled for next year.
<a href="#">1648618</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	3/1/20 12:00 AM	3/2/20 02:01 PM	3/2/20 02:01 PM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware.



## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1900547</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	9/1/20 12:00 AM	9/1/20 10:19 AM	9/1/20 10:19 AM	-MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware
<a href="#">1568648</a>			5934, Bruce Mines WWTP & CS	OPER	Inspection	1	YEARS	Daily O&M Activities (1y) 5934	COMP	1/1/20 12:00 AM	12/30/20 01:33 PM	12/30/20 01:33 PM	- Checked Main lift station. Noted pump hours and checked generator. Heat was on in building and diesel fuel level normal. Checked Taylor street and Prout street lift station. Pump hours were checked and general area was inspected for unusual abnormalities, Lagoon checked and levels normal and berms holding well. Gate closed and no trespassing sign in place. When discharging the lagoon is inspected daily and samples are taken as per lagoon C of C.
<a href="#">2023497</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	COMP	12/1/20 12:00 AM	12/7/20 08:43 AM	12/7/20 08:43 AM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1944718</a>			5934, Bruce Mines WWTP & CS	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5934	CLOSE	10/1/20 12:00 AM	10/5/20 02:03 PM	10/5/20 02:03 PM	- MCC panel looks normal and hour meters working correctly and the Milltronics functioning normal levels are normal. Heat on in building. All submersible Pumps are working normal and building hardware all operational. Lagoon was checked and birms were holding good and all looked normal. Check pump trending for Taylor street lift station and other stations as well on wonder ware.
<a href="#">2023463</a>	0000142206	PANEL ALARM/DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	COMP	12/1/20 12:00 AM	12/21/20 02:09 PM	12/21/20 02:09 PM	-No AC power alarm tested. High level float alarm tested at Taylor street.
<a href="#">1944687</a>	0000142206	PANEL ALARM/DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	10/1/20 12:00 AM	10/27/20 02:33 PM	10/27/20 02:33 PM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well.
<a href="#">1985058</a>	0000142206	PANEL ALARM/DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	11/2/20 12:00 AM			Critical Alarm/Dialer Testing (1m) 5934 - - Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1691684</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	4/1/20 12:00 AM	4/15/20 02:36 PM	4/15/20 02:36 PM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well. Milltronics high level and pump fail alarm operated as it should.
<a href="#">1734644</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	5/1/20 12:00 AM	5/22/20 09:40 AM	5/22/20 09:40 AM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well. Prout street milltronics alarm tested normally.
<a href="#">1777533</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	6/1/20 12:00 AM	6/17/20 08:50 AM	6/17/20 08:50 AM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well.
<a href="#">1819183</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	7/1/20 12:00 AM	7/22/20 11:47 AM	7/22/20 11:47 AM	-Checked Float alarm at Main lift station and at taylor street lift station.
<a href="#">1859951</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	8/1/20 12:00 AM	8/28/20 09:38 AM	8/28/20 09:38 AM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1900167</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	9/1/20 12:00 AM	9/24/20 10:21 AM	9/24/20 10:21 AM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well.
<a href="#">1568644</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	1/1/20 12:00 AM	1/15/20 02:15 PM	1/15/20 02:15 PM	-Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms.
<a href="#">1609478</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	2/1/20 12:00 AM	2/21/20 09:13 AM	2/21/20 09:13 AM	-Checked Float alarm at Main lift station and entry door alarm. Working normal.
<a href="#">1648577</a>	0000142206	PANEL ALARM/ DIALER MAIN PS	5934, Bruce Mines WWTP & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5934	CLOSE	3/1/20 12:00 AM	3/13/20 10:40 AM	3/13/20 10:40 AM	- Tested Float alarms at various lift stations and they checked out ok. ATS called out for high level alarms. Tributary lift stations checked and working normal as well.
<a href="#">1707867</a>	0000127638	PUMP SUBMERSIBLE 01 MAIN PS	5934, Bruce Mines WWTP & CS, Process, Primary Treatment	EMER	Refurbish/ Replace/Repair	0		Pump 1 Failure - Hwy 17 Lift Station	CLOSE		4/14/20 08:46 AM	5/11/20 01:49 PM	-Called in by Patti O'Handley, SR. Operations Manager on behalf of Mark Witty to attend lift station for assistance with removal and troubleshooting submersible pump issue at Hwy 17 lift station.
<a href="#">2000798</a>			5934, Bruce Mines WWTP & CS	CORR	Refurbish/ Replace/Repair	0		5934 Bruce mines Main lift station emergency light repair installation	COMP		11/24/20 08:13 AM	12/23/20 09:31 AM	-ESA incident. Emergency lighting failed required replacing. Tombari electric into wire up exist signs into new wall unit.  -Emergency light installed. work completed

## Workorder Summary Report

Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1916244</a>			5934, Bruce Mines WWTP & CS, Facility, Power Generation	CORR	Refurbish/ Replace/Repair	0		5934 Main lift station generator starting issues	COMP		12/29/20 02:07 PM	12/29/20 02:07 PM	-Generator slightly hesitating to start. Will have Electrician into check and trouble shoot the problem. Tombari electric has a generator technician.
<a href="#">2023481</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	COMP	12/1/20 12:00 AM	12/21/20 02:08 PM	12/21/20 02:08 PM	- Tested Generator under load conditions and it ran normal, Or checked after it ran under normal power interruption. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced. Some hesitation trying to start. Town Planned to get mechanic to look at it.
<a href="#">2024218</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test (1y) 5934	COMP	12/1/20 12:00 AM	12/7/20 08:46 AM	12/7/20 08:46 AM	- Total Power was in and completed annual inspections along with Changing oil and filters, Air breathers battery checks etc. New battery terminals installed on unit.

## Workorder Summary Report

 Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1944702</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	10/1/20 12:00 AM	10/9/20 08:26 AM	10/9/20 08:26 AM	- Total Power was in and completed annual inspections along with Changing oil and filters, Air breathers battery checks etc. Generator tested under load conditions. All ok
<a href="#">1985073</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	11/2/20 12:00 AM	11/27/20 01:46 PM	11/27/20 01:46 PM	-Tested Generator under load conditions and it ran normal, Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced
<a href="#">1691699</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	4/1/20 12:00 AM	4/22/20 01:48 PM	4/22/20 01:48 PM	- Tested Generator under load conditions and it ran normal, Engine did not start right away seemed like a bad wire from battery. Checked battery connections and found one a little loose. Repaired but unit did not seem any better. Checked connection on starter and it was tightened up and tried the generator. unit started normal 4 times in manual. Ran in auto and it was normal. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced. Tested in manual again after running in auto and it started normal.. ok

## Workorder Summary Report

Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1609493</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	2/1/20 12:00 AM	2/26/20 02:46 PM	2/26/20 02:46 PM	-Tested Generator under load conditions and it ran normal Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced.
<a href="#">1648602</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	3/1/20 12:00 AM	3/18/20 02:37 PM	3/18/20 02:37 PM	- Tested Generator under load conditions and it ran normal, Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced.
<a href="#">1734659</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	5/1/20 12:00 AM	5/22/20 09:38 AM	5/22/20 09:38 AM	-Tested Generator under load conditions and it ran normal, Or checked after it ran under normal power interruption. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced. Generator hesitated starting tightened the starter cable from battery seemed to fix it. Tested four times and it started normal.

## Workorder Summary Report

Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1777548</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	6/1/20 12:00 AM	6/17/20 08:47 AM	6/17/20 08:47 AM	-Generator under load conditions and it ran normal, Or checked after it ran under normal power interruption. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced
<a href="#">1819198</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	7/1/20 12:00 AM	7/17/20 10:59 AM	7/17/20 10:59 AM	- Tested Generator under load conditions and it ran normal, Or checked after it ran under normal power interruption. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced.
<a href="#">1859966</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	8/1/20 12:00 AM	8/19/20 10:51 AM	8/19/20 10:51 AM	- Diesel back up Generator testing complete, switch over/back went off without issue. Inspected fluids, belts and hoses with no issues found.



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 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1900330</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	9/1/20 12:00 AM	9/8/20 02:47 PM	9/8/20 02:47 PM	- Tested Generator under load conditions and it ran normal, Or checked after it ran under normal power interruption. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced.  <b>Annual service completed by Total Power..</b>
<a href="#">1568673</a>	0000127635	GENERATOR DIESEL MAIN PS	5934, Bruce Mines WWTP & CS, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5934	CLOSE	1/1/20 12:00 AM	1/23/20 01:52 PM	1/23/20 01:52 PM	-Tested Generator under load conditions and it ran normal, Or checked after it ran under normal power interruption. Unit transferred power normal and all gauges read correct values. Oil level ok and diesel fuel level is sufficient for up to 8 hours run time or more Battery liquid level checked and filled if required. Louvers worked normally as they were repaired and or replaced.

Workorder Summary Report

Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1707706</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CORR	Refurbish/ Replace/Repair	0		5934 Bruce mines MAIN LIFT STATION PULL AND CHECK PUMP #1	COMP		4/12/20 07:57 PM	12/29/20 02:09 PM	<p>-</p> <p>Due to weather forecast indicating heavy rains Manager requested that the pump be checked electrically and physically. Richard O'Hara electrician checked it and it indicated that the pump was either plugged or jammed or motor had a dead short. Pulled pump and checked impeller. it was free to move. Tried to start motor. Impeller would not move and motor made a bad noise sounding like it was electrically shorting inside. Town tested their new pump on tractor in case of a back up was required. Hoses were made ready in case they were needed if one pump could not keep up. valves were exercised in case a bypass was needed. Cleared alarms and reset system to operate off #2 pump only. Arranged contact for Town and called about getting a rental pump from Xylem. Xylem working with town and manager for pump repair and replacement. Charles and Ryan assisted in pump extraction as confined space area etc.</p> <p>-verified pump delivery through Manitoulin transport and delivery location.. Arranged electrician to disconnected faulted failed pump and installed rental pump. Tested pump and cleaned up work area. Both pumps in service alternating.</p>

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 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1707951</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CAP	Refurbish/ Replace/Repair	0		5934 Bruce mines WWT. Main lift station sewage pump purchase	CLOSE		10/20/20 11:58 AM	10/20/20 11:58 AM	<p>-Hwy 17 main lift station sewage pump failed. Request to purchase new 47 submersible pump from Xylem. Only one supplier for this pump. Distributor located in Sudbury. 4 hours with two OCWA employees to install. One electrician min. call out rates. (4 hr)</p> <p>-Installed new pump at main lift station in Bruce mines. Prepared rental pump for shipping back to supplier. Xylem in Sudbury. Sent Collect and nor charges for Rental or shipping is to be for OCWA or Town of Bruce mines. Tombari electric into complete the disconnect and reconnect.</p>
<a href="#">1662513</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CAP	Refurbish/ Replace/Repair	0		5934 Bruce mines Purchase Cap. spare pump for Taylor/Prout st. lift station	COMP		12/30/20 01:26 PM	12/30/20 01:26 PM	<p>-May 19 - Received a call from Manitoulin Transport that pump being delivered today and shipping will be billed to OCWA as they don't have an account with the Client. This was approved.</p>
<a href="#">1748421</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CORR	Refurbish/ Replace/Repair	0		5934 Bruce mines Taylor st. lift station spare pump repair	COMP		12/29/20 02:08 PM	12/29/20 02:08 PM	<p>-Enquired into repair of old spare pump for Taylor street. Proved electrical motor was bad by pulling motor off pump and inspecting. Xylem agreed to repair for \$1100. as per verbal quote from Alan Fye. Pump to be sent to Sudbury to complete repair.</p> <p>-Estimate to repair pump to have a spare on hand. Shipping fees estimated</p> <p>-Pump repaired awaiting delivery from Sudbry July 6 2020..</p>

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 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">1749177</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CORR	Refurbish/ Replace/Repair	0		5934 Bruce mines Waste water main lift station pump repair	CLOSE		7/6/20 02:21 PM	7/6/20 02:21 PM	-Sewage pump failed and was sent to Xylem for estimate for repair. Repair to be completed to have a spare pump on hand.  -Old 47 hp pump sent into Xylem for cost estimate repair. Quote to be sent for approval.  -Town did not approve the repair.. pump scrapped..
<a href="#">1751427</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CAP	Refurbish/ Replace/Repair	0		5934 Bruce mines Waste generator spare parts	COMP		12/30/20 01:24 PM	12/30/20 01:24 PM	-Request to purchase a spare starter for the generator at the main lift station to have on hand. Estimated cost is \$500 plus shipping.

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 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2000796</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CORR	Refurbish/ Replace/Repair	0		5934 Bruce mines main lift staion Pump # 2 failing on overload repair or replacment required.	COMP		11/24/20 08:07 AM	12/23/20 09:33 AM	<p>-Pump # 2 failing on overload. Tombari electric into trouble shoot what is the cause.</p> <p>-Pump # 2 pulled as it required repair. Pump sent to Xylem for quote. Rental pump arranged until repair or replacement is completed.</p> <p>-Installed rental pump into main lift station. Tombari electric into wire pump up and Checked rotation prior to putting pump into service. Checked pump and it pumped normal. Pump put into Alternate rotation and is in auto. Cleared alarms</p> <p>5934 Bruce mines main lift staion Pump # 2 failing on overload repair or replacment required.</p> <p>-Travel to Bruce Mines. Pull failed pump. Deliver to Xylem Sudbury for Repair/diagnosis</p> <p>-Rental pump in place new pump ordered for 2021</p>
<a href="#">2000110</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CALL	Refurbish/ Replace/Repair	0		5934 Bruce mines waste water main lift station pump fail	CLOSE		11/19/20 06:15 AM	11/19/20 07:30 AM	<p>-High level sewage alarm, pump fail alarm. Pump #2 failed on overload. Reset overload switch and tested pump. pump run normal and pumped normal. put pump back into service and cleared alarms. Monitored pump through pump cycle's and it ran and pumped normal. Cleared alarms.</p>

## Workorder Summary Report

Report Start Date: Jan 1, 2020 12:00 AM  
 Report End Date: Dec 31, 2020 11:59 PM  
 Location: 5934\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2038840</a>			Bruce Mines Wastewater Treatment Plant & Collection System	PM	Refurbish/ Replace/Repair	0		5934 Bruce mines Main lift station. Utility provider moving hyddro poles near lift station power o	COMP		12/17/20 01:45 PM	12/17/20 01:49 PM	-Electrical provider moving hydro poles and wires to accommodate new hwy improvements. Generator had to be run by turning main disconnect off. When work was completed pumps had to be tested to make sure they rotated the same way, Checked other lift stations to make sure they operated normally during power outage.
<a href="#">1707705</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CALL	Refurbish/ Replace/Repair	0		5934 Bruce mines waste water high level pump failure	CLOSE		4/12/20 04:45 AM	4/12/20 06:00 AM	-High level alarm. pump #1 failed to pump exercised and cycled pump but would not pump down. set system to run pump #2 only and watch cycles until it indicated level would not get high. Cleared alarm and notified manager. we my need to pull pump and check it as heavy rains were forecasted.
<a href="#">2036780</a>			Bruce Mines Wastewater Treatment Plant & Collection System	CAP	Refurbish/ Replace/Repair	0		5934 Bruce Mines Hwy 17 Sewage Pump Station Pump Replacement	COMP		12/30/20 01:30 PM	12/30/20 01:30 PM	5934 Bruce Mines Hwy 17 Sewage Pump Station Pump Replacement - Quote to purchase and install (one) new submersible pump at the Hwy 17 Sewage pump station. All electrical and installation costs included

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 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
<a href="#">2000799</a>			5934, Bruce Mines WWTP & CS, Prout SPS	CAP	Refurbish/ Replace/Repair	0		5934 Bruce mines Prout street new generator retrofit/upgrade	COMP		11/24/20 08:20 AM	12/30/20 01:32 PM	<p>-Meet with S&amp;T electric to give access to MCC panel to so electrical work can be completed to prepare for change over to facilitate new on site generator. Power change over and testing to be completed tomorrow.</p> <p>-On site for new generator commissioning. Set up and coordinated alarms from new generator into MCC panel with S&amp;T electric.</p> <p>-Work now to be completed on January 4th 2021 due to issues with gas supply line failures.</p>
<a href="#">2001732</a>			5934, Bruce Mines WWTP & CS, Taylor SPS, Process, Pumping	CALL	Refurbish/ Replace/Repair	0		5934 Bruce Mines Sewage Lift stn pump 2 fault	CLOSE		11/24/20 04:15 AM	11/24/20 07:00 AM	<p>5934 Bruce Mines Sewage Lift stn pump 2 fault</p> <p>-Hwy 17 lift station pump 2 fault alarm, reset on control panel and it tripped again, unit out of service , electrician to inspect. Pump one to lead and operating normal.</p>