

Town of Petrolia Water Pollution Control Plant

Managed, Operated, and Maintained by



2016 Annual Report of Operations

March 2017

Paul Tersteege, Provincial Officer – Sarnia Office

Ontario Ministry of the Environment and Climate Change
1094 London Road,
Sarnia, Ontario.

Dear Paul Tersteege

On behalf of the Corporation of the Town of Petrolia, in Lambton County, CH2M is pleased to submit to you the annual operating report for the Town of Petrolia Water Pollution Control Plant. Please feel free to contact the undersigned if you have any questions regarding this report.

Respectfully submitted,

Cathy Culnan
Operator in Charge
CH2M

cc: Mike Thompson, Manager of Operations, Town of Petrolia

Randy Clendenning, Project Manager, CH2M

Introduction

The Town of Petrolia Water Pollution Control Plant (WPCP) was constructed in 1975 to replace the existing Lagoon treatment system. Upgrades to the treatment plant have included UV disinfection in 1995, VFD on the pumps at the main lift station in 1996 and again in 2013. Replacement of the manual bar screen with an automatic step screen occurred in 1999. Filter sand media was replaced in May of 2010 and then more was added in July 2014. A new MCC panel was installed on the filter in July 2014. Also repairs were done to the rails, drive, wheels on the traveling bridge of the filter in 2014. The plant has a design capacity of 3800 m³/day and is currently treating on average 1583 m³/day. An amendment to the ECA was applied for in 2002 and approved by the MOECC Approvals Branch to have the plant re-rated from 3180m³/day to 3800m³/day based on the installation of two 30hp Jet Aspirators in the aeration tanks. Another amendment to the ECA was applied for in 2008 and approved by the MOECC to clarify lagoon discharge criteria. The WPCP is a tertiary extended aeration plant with two large lagoons, one used to store digested sludge, and the other to use as a backup system in the event the plant requires maintenance. The plant consists of grit removal, mechanical aeration, jet aeration, clarification, sand filtration, and ultraviolet disinfection. Disinfection is only required seasonally requiring the UV system to be in operation from April 1st to November 30th each year. A new pump station was added to the system in 2013. The collection system now consists of 12 pumping stations.

Monitoring and Compliance Reports

Reports submitted to the regional environmental officer are the R1and R2 Municipal Utility Monitoring Program reports for mechanical plants. These reports are submitted quarterly to the Ontario Ministry of the Environment and Climate Change (MOECC) as can be seen from the analytical data, the plant was in compliance for the year 2016.

The plant is capable of removing 99.2% of CBOD₅, 99.6% TSS, 89.6% TP

Monitoring Data Interpretation

The following summarizes the operation and effectiveness of the treatment process.

The average monthly Influent flows ranged from 1566 m³ in January to 2396 m³ in March. We anticipate flow values to increase due to population and business growth.

During 2016 the Effluent TSS highest monthly average was 3.8 mg/L during the month of August. The CBOD₅ highest monthly average 3.8 mg/L during the month of February. The highest monthly average for TP was 0.71 mg/L occurred in January. The Ammonia Nitrogen highest monthly average was 0.59 mg/L during the month of January.

ECA Effluent Limit parameters:

CBOD₅ – 10 mg/L (38.0kg/d)

TSS-10 mg/L (38.0kg/d)

Total P –1 mg/L (3.8kg/d)

Ammonia Nitrogen – 3.0 mg/L (11.4kg/d) (May 1-Nov 30) and 7.0mg/L (26.6kg/d) (Dec 1 to April 30)

E-coli – 200 organisms/100mL

pH – 6.0 – 9.5 inclusive, at all times

ECA Effluent Objective Parameters:

CBOD₅ – 5 mg/L (26.3 kg/d)

TSS – 5 mg/L (26.3 kg/d)

Total P – 0.37 mg/L (1.9kg/d)

Ammonia Nitrogen – 2.0 mg/L (10.5 kg/d) (May 1-Nov 30) and 4.0mg/L (21.0 kg/d) (Dec 1 to April 30)

pH – to operate within the range of 6.5 – 8.5 inclusive at all times

In order to monitor our process and operate the plant within our objectives; grab & composite samples are collected and in-house analyses are performed. All results are documented on daily check sheets

Complaints

There were no complaints for the year 2016.

Maintenance

Preventive maintenance activities are carried out on a regularly scheduled basis to ensure optimal performance and readiness of all critical plant equipment. The annual electrical inspection was performed by the ESA (Electrical Safety Authority) at the plant and all pumping stations on Oct 20th. HSE performed the annual Fire Extinguisher inspection on April 15th. JT General Maintenance did the annual inspection of the hoists, chain falls etc. on June 21st. The annual inspection of Barrett's Lane generator was performed by Albert's Generator on March 15th

- Filter was taken out of service for cleaning several times throughout the year
- Clean pump # 1, # 2, # 3 at Main Lift station numerous times throughout the year
- Cleaned pumps at Greenfield, First Avenue, Glenview and Barrett's Lane pump stations
- Jan 27th – Duff's Welding welded lag bolts on Northeast mixer
- Feb 8th – Hayter's performed a required inspection of the diesel tank at Barrett's Lane pump station. It is recommended for a replacement due to a tag unreadable
- Feb 16th – Installed repaired pump at Progress Drive pump station
- April 7th – CT Environmental cleaning Garfield, Garden and First Ave pump stations
- May 30th - Install repaired motor on pump # 1 at Barrett's Lane pump station
- July 15th – Install repaired pump at Greenfield pump station
- November 3rd – CT Environmental cleaning Ella, Glenview and Greenfield pump stations
- Dec 5th – Install repaired pump at Greenfield pump station

Operational / Process Problems

Despite the age of the facility, the effluent quality remains good, with exceptions. During heavy rains the high flows cause an upset in process. Solids wash out and cause excess of solids in surge tank. The flow then goes to filter, which causes a strain on filter, the sand gets overloaded with solids

Overflows from treatment plant are recorded and routed to the West lagoon

Sludge Handling

Waste activated sludge (WAS) is stored in aerobic digesters and digested for up to 7 days before being transferred to the sludge storage lagoon, which is the “East” lagoon. The plant produces on average 44.16 m³/day of sludge at 0.4 % solids. It is estimated that 7376 m³ of sludge was sent to the lagoons in 2016, at 0.4 % solids. For the year 2017, it is anticipated that the volume of sludge produced will increase slightly, due to ongoing construction of residential homes in various new subdivisions.

Monitoring Equipment

All monitoring equipment is calibrated yearly according the manufacturer’s specification which ensures proper operation and reliability. An OCM 3 ultrasonic flow meter is positioned in front of a Parshall Flume on the raw influent to record level through the parshall flume which converts it to flow in the control room. A Doppler flow meter is installed on the return activated sludge (RAS) line, to monitor the flow of RAS to the aeration. No flow meter is installed on the WAS, so wasting is achieved through measurement of sludge level in the digesters. A Pulsar Ultra 3 ultrasonic level controller is installed in the line going to the lagoons and records any flow to the lagoons.

Modifications

A new Treatment plant is under construction and will be commissioned in 2017

Pumping Stations

Pump Stations are checked on a weekly basis, and have alarm monitoring 24 hours per day. Pump run time hours are documented during the weekly checks. Barrett’s Lane pump station has a backup generator on standby. All other pump stations are equipped with a terminal plug and transfer switch in the event they require a portable generator. The Main Lift station can be bypassed directly to the plant’s on site lagoons.

Lagoons

Both the “East” and “West” lagoons were discharged to Bear Creek from May 2nd to May 19th

East lagoon released approximately 80,850 m³

West lagoon released approximately 115,962 m³

By-Passes

There were no by-passes to the lagoons during 2016.

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: January

Petrolia W.P.C.P.

Operations Numb 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| | Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|-------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 6-Jan | E-2668 W-3280 R-4696 | 90 | 68 | 32.7 | 4.40 | 260 | 2.0 | 3.5 | 0.64 | 46 | 0.008 | 18.8 | 0.10 | 14 | 0.52 | 7.91 | |
| 2 13-Jan | E-2504 W-3056 R-2830 | 102 | 68 | 33.7 | 4.40 | 252 | 3.0 | 3.3 | 0.73 | 62 | 0.017 | 16.1 | 0.12 | 2 | 0.40 | 8.00 | |
| 3 20-Jan | E-2368 W-2692 R-2104 | 75 | 56 | 27.6 | 3.60 | 268 | 2.0 | 3.0 | 1.02 | 78 | 0.010 | 10.1 | 0.28 | 2 | 0.98 | 8.03 | |
| 4 27-Jan | E-2560 W-2628 R-3316 | 157 | 106 | 40.8 | 5.60 | 266 | 2.0 | 3.3 | 0.45 | 68 | 0.046 | 9.6 | 1.85 | 2 | 0.34 | 8.00 | |
| 5 | | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Monthly Average: | | 106 | 75 | 33.7 | 4.5 | 262 | 2.3 | 3.3 | 0.71 | 64 | 0.020 | 13.7 | 0.59 | 3 | 0.56 | 7.99 | |

Comments:

Jan 20th total Phos - has a higher than normal reading due to the Alum thickened in line. Flushed line with hot water

Jan 27th Ammonia - has a higher than normal reading due to the "NE" Mixer being O.O.S, waiting for parts

2016 Weekly Analytical and Monthly Average Results

MONTH: February

Petrolia W.P.C.P.

Operations Numb 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|--------------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|---------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 3-Feb | E-2976 W-3168 R-4564 | 40 | 80 | 15.8 | 2.8 | 248 | 2.0 | 1.8 | 1.40 | 68 | 0.024 | 13.5 | 0.15 | 8 | 1.36 | 8.04 |
| 2 10-Feb | E-2880 W-3064 R-4336 | 61 | 72 | 18.2 | 2.8 | 270 | 2.0 | 2.3 | 0.20 | 72 | 0.010 | 10.0 | 0.07 | 42 | 0.13 | 7.48 |
| 3 17-Feb | E-3124 W-3016 R-4248 | 124 | 92 | 28.0 | 3.7 | 246 | 9.0 | 4.5 | 0.30 | 46 | 0.021 | 14.2 | 0.44 | 2 | 0.15 | 7.23 |
| 4 24-Feb | E-2164 W-2600 R-to thick | 130 | 72 | 30.4 | 4.7 | 238 | 2.0 | 4.0 | 0.39 | 48 | 0.019 | 14.8 | 0.18 | 2 | 0.15 | 7.88 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Monthly Average: | | 89 | 79 | 23.1 | 3.5 | 251 | 3.8 | 3.2 | 0.57 | 59 | 0.019 | 13.1 | 0.21 | 6 | 0.45 | 7.66 |

Comments:

Feb-3 The Phosohorous levels rose a bit due to plugged alum line, flushed line with hot water

Feb 10 - sample arrived at lab frozen, I was notified by lab and still processed e-coli

Feb 24 - Solids are low in aeration tanks due to RAS pump had tripped. Unable to process RAS because it was to thick

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: March

Petrolia W.P.C.P.

Operations Number: 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | Aeraton MLSS | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 2-Mar | E-2976 W-2484 R-2056 | 151 | 116 | 39.5 | 5.1 | 304 | 2.0 | 2.5 | 0.45 | 112 | 0.009 | 12.2 | 0.18 | 118 | 0.26 | 7.89 |
| 2 9-Mar | E-3268 W-2976 R-4672 | 70 | 66 | 18.6 | 2.6 | 306 | 2.0 | 5.3 | 0.77 | 82 | 0.019 | 10.2 | 0.13 | 38 | 0.27 | 7.86 |
| 3 16-Mar | E-3532 W-3256 R-4976 | 81 | 80 | 29.4 | 4.1 | 284 | 2.0 | 3.0 | 0.48 | 80 | 0.01 | 13.90 | 0.02 | 2 | 0.33 | 7.97 |
| 4 23-Mar | E-4296 W-3296 R-5484 | 113 | 110 | 33.8 | 4.5 | 292 | 2.0 | 2.8 | 0.52 | 54 | 0.02 | 14.1 | 0.04 | 2 | 0.43 | 7.87 |
| 5 30-Mar | E-2960 W-2660 R-5180 | 38 | 47 | 16.8 | 1.7 | 273 | 2.0 | 2.0 | 0.27 | 135 | 0.030 | 10.4 | 0.10 | 102 | 0.26 | 7.07 |
| Number of Tests | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Monthly Ave.: | | 104 | 93 | 30.3 | 4.1 | 297 | 2.0 | 3.4 | 0.56 | 82 | 0.016 | 12.6 | 0.09 | 12 | 0.32 | 7.90 |

Comments:

E-coli sample fo March 2nd was high due to snow storm with high winds caused the surge tank to mix

E-coli sample for March 28th was high due to heavy rain storm late March March 26th, surge tank full and mixing with rains and winds

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

Petrolia W.P.C.P.

Operations Numbr 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

MONTH: April

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|--------------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 6-Apr | E-3644 W-3136 R-6260 | 133 | 116 | 37.0 | 5.2 | 308 | 2.0 | 2.5 | 0.32 | 92 | 0.086 | 13.6 | 0.22 | 2 | 0.21 | 7.47 |
| 2 13-Apr | E-4364 W-4440 R-7410 | 97 | 126 | 33.8 | 4.6 | 292 | 6.0 | 2.0 | 0.31 | 126 | 0.016 | 10.9 | 0.19 | 240 | 0.31 | 8.04 |
| 3 20-Apr | E-4848 W-4736 R-7276 | 80 | 68 | 27.4 | 2.7 | 272 | 2.0 | 3.8 | 0.09 | 86 | 0.063 | 10.0 | 0.95 | 2 | 0.40 | 8.01 |
| 4 27-Apr | E-3520 W-3696 R-to thick | 101 | 152 | 30.0 | 4.0 | 260 | 2.0 | 2.8 | 0.58 | 62 | 0.066 | 17.5 | 0.23 | 70 | 0.44 | 7.28 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Monthly Average: | | 103 | 116 | 32.1 | 4.1 | 283 | 3.0 | 2.8 | 0.33 | 92 | 0.058 | 13.0 | 0.40 | 16 | 0.34 | 7.70 |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: May

Petrolia W.P.C.P.

Operations Numbr: 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 4-May | E-3488 W-4116 R-4984 | 91 | 78 | 25.7 | 3.4 | 288 | 2.0 | 2.5 | 0.43 | 66 | 0.014 | 18.2 | 0.31 | 2 | 0.47 | 7.61 |
| 2 11-May | E-3584 W-3808 R-6024 | 109 | 122 | 58.0 | 6.5 | 320 | 2.0 | 1.8 | 0.53 | 66 | 0.048 | 17.9 | 0.10 | 2 | 0.42 | 7.68 |
| 3 18-May | E-3356 W-3472 R-5576 | 108 | 102 | 37.6 | 5.3 | 318 | 2.0 | 2.5 | 0.47 | 82 | 0.029 | 14.7 | 0.10 | 2 | 0.34 | 7.67 |
| 4 25-May | E-2840 W-2936 R-4708 | 175 | 202 | 51.2 | 5.1 | 282 | 2.0 | 4.8 | 0.49 | 60 | 0.047 | 13.2 | 0.14 | 2 | 0.36 | 7.13 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Monthly Average: | | 121 | 126 | 43.1 | 5.1 | 302 | 2.0 | 2.9 | 0.48 | 69 | 0.035 | 16.0 | 0.16 | 2 | 0.40 | 7.52 |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: June

Petrolia W.P.C.P.

Operations Numb 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|---------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 1-Jun | E-2960 W-2576 R-3316 | 132 | 132 | 42.7 | 7.1 | 302 | 2 | 2.5 | 0.18 | 34 | 0.025 | 18.7 | 0.21 | 2 | 0.06 | 7.21 |
| 2 8-Jun | E-2244 W-2268 R-3568 | 289 | 530 | 43.4 | 7.2 | 302 | 3 | 2.5 | 0.37 | 32 | 0.022 | 16.3 | 0.18 | 2 | 0.19 | 7.35 |
| 3 15-Jun | E-2268 W-2444 R-1784 | 69 | 76 | 33.0 | 5.1 | 254 | 2 | 1.5 | 0.57 | 34 | 0.026 | 18.5 | 0.14 | 2 | 0.50 | 7.25 |
| 4 22-Jun | E-2512 W-2832 R-3124 | 131 | 124 | 30.1 | 4.9 | 278 | 2 | 2.8 | 0.35 | 42 | 0.002 | 19.8 | 0.02 | 2 | 0.14 | 7.29 |
| 5 29-Jun | E-2092 W-2468 R-3024 | 113 | 74 | 35.9 | 5.1 | 232 | 2 | 2.5 | 0.41 | 40 | 0.024 | 12.1 | 0.31 | 2 | 0.26 | 7.27 |
| Number of Tests | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Monthly Average: | | 147 | 187 | 37.0 | 5.9 | 274 | 2.2 | 2.4 | 0.38 | 36 | 0.020 | 17.1 | 0.17 | 2 | 0.23 | 7.27 |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

Petrolia W.P.C.P.

Operations Number 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

MONTH: July

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 6-Jul | E-2184 W-2772 R-3972 | 89 | 90 | 30.9 | 4.8 | 208 | 2.0 | 2.3 | 0.90 | 32 | 0.016 | 16.9 | 0.13 | 2 | 0.86 | 7.05 |
| 2 13-Jul | E-2004 W-2412 R-1740 | 82 | 90 | 29.4 | 4.1 | 200 | | | | | | | | | | |
| 3 20-Jul | E-2000 W-2252 R-3432 | 70 | 94 | 25.6 | 4.2 | 210 | 2.0 | 2.3 | 0.47 | 30 | 0.022 | 15.8 | 0.05 | 2 | 0.34 | 7.24 |
| 4 27-Jul | E-1880 W-2440 R-3620 | 110 | 52 | 29.1 | 3.7 | 218 | 2.0 | 2.0 | 0.43 | 8 | 0.200 | 28.7 | 0.10 | 2 | 0.52 | 6.61 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Monthly Average: | | 88 | 82 | 28.8 | 4.2 | 209 | 2.0 | 2.2 | 0.60 | 23 | 0.079 | 20.5 | 0.09 | 2 | 0.57 | 6.97 |

Comments:

No Final sample analysis due to filter hood plugged-diverted flow to "West" lagoon and cleaned filter hood

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: August

Petrolia W.P.C.P.

Operations Numbr: 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 3-Aug | E-2014 W-2556 R-3412 | 91 | 104 | 27.5 | 4.80 | 206 | 2.0 | 3.5 | 0.49 | 34 | 0.063 | 17.9 | 0.35 | 2 | 0.31 | 7.22 |
| 2 10-Aug | E-2564 W-2876 R-4708 | 98 | 90 | 34.8 | 4.90 | 200 | 2.0 | 6.3 | 0.53 | 8 | 0.061 | 24.1 | 0.54 | 2 | 0.33 | 6.84 |
| 3 17-Aug | E-932 W-1320 R-2232 | 53 | 80 | 16.0 | 3.00 | 226 | 2.0 | 4.8 | 0.56 | 50 | 0.178 | 12.1 | 0.25 | 2 | 0.37 | 7.27 |
| 4 24-Aug | E-1612 W-2128 R-2952 | 138 | 182 | 40.6 | 5.70 | 220 | 2.0 | 1.3 | 0.50 | 32 | 0.046 | 18.0 | 0.10 | 2 | 0.43 | 7.07 |
| 5 31-Aug | E-2308 W-2848 R-4172 | 67 | 48 | 26.2 | 3.50 | 218 | 2.0 | 3.3 | 0.57 | 48 | 0.040 | 9.3 | 0.20 | 2 | 0.50 | 7.36 |
| Number of Tests | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Monthly Average: | | 89 | 101 | 29.0 | 4.4 | 214 | 2.0 | 3.8 | 0.53 | 34 | 0.078 | 16.3 | 0.29 | 2 | 0.39 | 7.15 |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

Petrolia W.P.C.P.

Operations Number 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

MONTH: September

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|---------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 7-Sep | E-2200 W-2620 R-3632 | 82 | 84 | 23.4 | 4.2 | 204 | 2.0 | 2.3 | 0.54 | 30 | 0.08 | 13.8 | 0.03 | 2 | 0.45 | 7.10 |
| 2 14-Sep | E-2444 W-2812 R-3552 | 74 | 78 | 24.5 | 3.7 | 182 | 2.0 | 1.8 | 0.52 | 26 | 0.07 | 11.5 | 0.02 | 2 | 0.47 | 7.14 |
| 3 21-Sep | E-2356 W-3024 R-3892 | 108 | 96 | 27.4 | 2.9 | 188 | 2.0 | 0.5 | 0.29 | 16 | 0.037 | 15.6 | 0.12 | 2 | 0.24 | 6.84 |
| 4 28-Sep | E-2424 W-2632 R-3120 | 63 | 54 | 22.5 | 3.5 | 176 | 2.0 | 2.0 | 0.26 | 16 | 0.088 | 14.2 | 0.16 | 2 | 0.16 | 6.96 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Monthly Average: | | 82 | 78 | 24.5 | 3.6 | 188 | 2.0 | 1.7 | 0.40 | 22 | 0.070 | 13.8 | 0.08 | 2 | 0.33 | 7.01 |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: October

Petrolia W.P.C.P.

Operations Numbe 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| Aeration MLSS | RAW INFLUENT | | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L |
| 1 5-Oct | E-2604 W-2794 R-3744 | 114 | 120 | 24.7 | 4.20 | 190 | 2.0 | 1.8 | 0.36 | 24 | 0.052 | 16.9 | 0.13 | 2 | 0.28 | 7.17 |
| 2 12-Oct | E-2620 W-2792 R-3868 | 99 | 158 | 24.3 | 4.00 | 192 | 2.0 | 2.8 | 0.21 | 16 | 0.018 | 14.0 | 0.19 | 2 | 0.09 | 7.00 |
| 3 19-Oct | E-2860 W-3140 R-3836 | 112 | 80 | 26.0 | 3.50 | 196 | 2.0 | 2.5 | 0.60 | 22 | 0.096 | 8.1 | 0.23 | 2 | 0.54 | 7.39 |
| 4 26-Oct | E-3308 W-3332 R-4782 | 90 | 78 | 30.4 | 3.80 | 216 | 2.0 | 2.8 | 0.40 | 20 | 0.067 | 21.4 | 0.23 | 2 | 0.02 | 7.47 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Monthly Average: | | 104 | 109 | 26.4 | 3.9 | 199 | 2.0 | 2.5 | 0.39 | 21 | 0.058 | 15.1 | 0.20 | 2 | 0.23 | 7.26 |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

MONTH: November

Petrolia W.P.C.P.

Operations Numb 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

YEAR: 2016

Analyst : Doug Marsh

| Test # Date | Aeration MLSS | | | | | | RAW INFLUENT | | | | | | | | | | | | FINAL EFFLUENT | | | | | | | | | | | |
|------------------|----------------------------|-----------|------------|----------|--------------|-----------------------|--------------|------------|------------|--------------|-----------------------|------------------|------------------|------------------|------------------|-----------------|----|--|----------------|--|--|--|--|--|--|--|--|--|--|--|
| | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | Reactive P mg/L | pH | | | | | | | | | | | | | |
| 1 2-Nov | E-3124 W-3196 R-4648 | 68 | 62 | 27.8 | 3.9 | 200 | 2.0 | 0.5 | 0.54 | 26 | 0.127 | 15.7 | 0.24 | 2 | 0.45 | 6.98 | | | | | | | | | | | | | | |
| 2 9-Nov | E-3312 W-3510 R-5680 | 182 | 195 | 42.5 | 4.9 | 283 | 2.0 | 2.0 | 0.49 | 53 | 0.100 | 23.6 | 0.10 | 2 | 0.56 | 7.51 | | | | | | | | | | | | | | |
| 3 16-Nov | E-3056 W-3380 R-4504 | 89 | 62 | 25.4 | 3.9 | 186 | 2.0 | 1.0 | 0.30 | 24 | 0.060 | 15.5 | 0.01 | 2 | 0.24 | 6.86 | | | | | | | | | | | | | | |
| 4 23-Nov | E-3396 W-3592 R-6704 | 136 | 176 | 24.4 | 2.2 | 164 | 2.0 | 1.3 | 0.11 | 16 | 0.070 | 12.5 | 0.16 | 2 | 0.03 | 6.95 | | | | | | | | | | | | | | |
| 5 30-Nov | E-2520 W-2678 R-3960 | 121 | 208 | 28.8 | 4.0 | 222 | 2.0 | 3.3 | 0.36 | 20 | 0.133 | 12.4 | 0.31 | 18 | 0.23 | 6.65 | | | | | | | | | | | | | | |
| Number of Tests | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | |
| Monthly Average: | | 119 | 141 | 29.8 | 3.8 | 211 | 2.0 | 1.6 | 0.36 | 28 | 0.098 | 15.9 | 0.16 | 3 | 0.30 | 6.99 | | | | | | | | | | | | | | |

Comments:

2016 WEEKLY ANALYTICAL and MONTHLY AVERAGE RESULTS

Petrolia W.P.C.P.

Operations Numbe 110000579

Operating Authority: O.M.I. Canada Inc.

Municipality: Town of Petrolia

MONTH: December

YEAR: 2016

Analyst : Doug Marsh

| | Aeration MLSS | RAW INFLUENT | | | | | FINAL EFFLUENT | | | | | | | | | |
|-----------------------|----------------------------|-------------------|------|--------------|---------------|-------------|-----------------|-----------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|
| | | Test # Date | mg/L | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml |
| 1 7-Dec | E-2616 W-3008 R-4524 | 103 | 94 | 26.2 | 3.7 | 212 | 2.0 | 1.8 | 0.27 | 26 | 0.053 | 14.4 | 0.16 | 2 | 0.20 | 7.19 |
| 2 14-Dec | E-2992 W-3284 R-5232 | 81 | 58 | 30.0 | 3.7 | 202 | 2.0 | 1.0 | 0.09 | 14 | 0.054 | 12.7 | 0.19 | 2 | 0.05 | 7.07 |
| 3 21-Dec | E-2640 W-2800 R-3630 | 217 | 221 | 50.9 | 5.4 | 263 | | | | | | | | | | |
| 4 28-Dec | E-3240 W-3780 R-5360 | 124 | 109 | 20.4 | 2.1 | 281 | 5.0 | 3.0 | 0.21 | 100 | 0.180 | 15.4 | 0.10 | 2 | 0.22 | 7.85 |
| 5 | | | | | | | | | | | | | | | | |
| Number of Tests | | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Monthly Average: | | 131 | 121 | 31.9 | 3.7 | 240 | 3.0 | 1.9 | 0.19 | 47 | 0.096 | 14.2 | 0.15 | 2 | 0.16 | 7.37 |

Comments:

No Final sample on Dec 21st - pipe from surge tank to filter room clogged. Was found to be a duck in the piping

LAGOON DATA

LOCATION: Petrolia East
YEAR: 2016

| EAST LAGOON EFFLUENT | | | | | | | | | |
|--------------------------|------------|------------|--------------|-----------------------|------------------|------------------|------------------|------------------|-------------|
| Date | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH -log[H]+ |
| 2-May Start Discharge | 4.0 | 3.0 | 0.68 | 79 | 0.030 | 15.8 | 0.10 | 2200 | 7.77 |
| 9-May | 4.0 | 3.0 | 0.64 | 87 | 0.050 | 16.1 | 0.10 | 720 | 7.78 |
| 12-May | 6.0 | 2.0 | 0.65 | 86 | 0.030 | 15.4 | 0.10 | 22 | 7.78 |
| 16-May | 4.0 | 8.0 | 1.14 | 111 | 0.050 | 10.6 | 0.20 | 16400 | 8.15 |
| 19-May Stop Discharge | 4.0 | 4.0 | 1.00 | 105 | 0.160 | 13.2 | 0.20 | 1000 | 7.97 |
| Average | 4.4 | 4.0 | 0.82 | 94 | 0.064 | 14.2 | 0.14 | 894 | 7.89 |

Comments:

Over the limit of the Monthly geomean average for e-coli
 Over the limit of the monthly average for Total Phosphorous

LAGOON DATA

LOCATION: Petrolia West
YEAR: 2016

| WEST LAGOON EFFLUENT | | | | | | | | | |
|--------------------------|------------|------------|--------------|-----------------------|------------------|------------------|------------------|------------------|-------------|
| Date | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH -log[H]+ |
| 2-May Start Discharge | 4.0 | 2.0 | 0.62 | 69 | 0.030 | 19.9 | 0.10 | 2980 | 7.86 |
| 9-May | 4.0 | 3.0 | 0.64 | 87 | 0.050 | 16.1 | 0.10 | 720 | 7.78 |
| 12-May | 4.0 | 5.0 | 0.76 | 103 | 0.260 | 17.4 | 1.90 | 26 | 7.60 |
| 16-May | 4.0 | 4.0 | 0.76 | 103 | 0.150 | 12.7 | 0.40 | 14800 | 8.17 |
| 19-May Stop Discharge | 4.0 | 3.0 | 0.81 | 143 | 0.300 | 1.12 | 0.10 | 16 | 8.67 |
| Average | 4.0 | 3.4 | 0.72 | 101 | 0.158 | 13.4 | 0.52 | 421 | 8.02 |

Comments:

Over the Limit of the Monthly geomean average for e-coli

LAGOON DATA

LOCATION: Petrolia Bear Creek "UP"
YEAR: 2016

| Bear Creek "UP" | | | | | | | | | |
|--------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
| Date | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH -log[H]+ |
| 2-May Start Discharge | 4.0 | 65 | 0.07 | 185 | 0.050 | 4.7 | 0.10 | 760 | 8.15 |
| 9-May | 4.0 | 61 | 0.06 | 206 | 0.030 | 6.3 | 0.10 | 32 | 8.22 |
| 12-May | 4.0 | 39 | 0.07 | 209 | 0.030 | 4.9 | 0.10 | 40 | 8.11 |
| 16-May | 4.0 | 192 | 0.17 | 160 | 0.150 | 9.7 | 0.30 | 560 | 8.31 |
| 19-May Stop Discharge | 4.0 | 62 | 0.10 | 196 | 0.110 | 8.8 | 0.10 | 144 | 8.22 |
| Average | 4.0 | 84 | 0.09 | 191 | 0.074 | 6.9 | 0.14 | 151 | 8.20 |

Comments:

LAGOON DATA

LOCATION: Petrolia Bear Creek "DOWN"
YEAR: 2016

| Bear Creek "DOWN" | | | | | | | | | |
|--------------------------|---------------|---------------|-----------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
| Date | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH -log[H]+ |
| 2-May Start Discharge | 4.0 | 47.0 | 0.28 | 138 | 0.070 | 11.0 | 0.40 | 2300 | 8.00 |
| 9-May | 4.0 | 76.0 | 0.03 | 206 | 0.030 | 6.3 | 0.10 | 38 | 8.24 |
| 12-May | 4.0 | 39.0 | 0.14 | 203 | 0.030 | 4.5 | 0.10 | 50 | 8.27 |
| 16-May | 4.0 | 47.0 | 0.15 | 170 | 0.130 | 9.7 | 0.30 | 520 | 8.20 |
| 19-May Stop Discharge | 4.0 | 65.0 | 0.04 | 193 | 0.100 | 8.8 | 0.10 | 66 | 8.25 |
| Average | 4.0 | 54.8 | 0.13 | 182 | 0.072 | 8.1 | 0.20 | 172 | 8.19 |

Comments:

2016 AVERAGE MONTHLY ANALYTICAL RESULTS

Petrolia W.P.C.P.

Operations Number: 110000579

Operating Authority: O.M.I. Canada Inc.

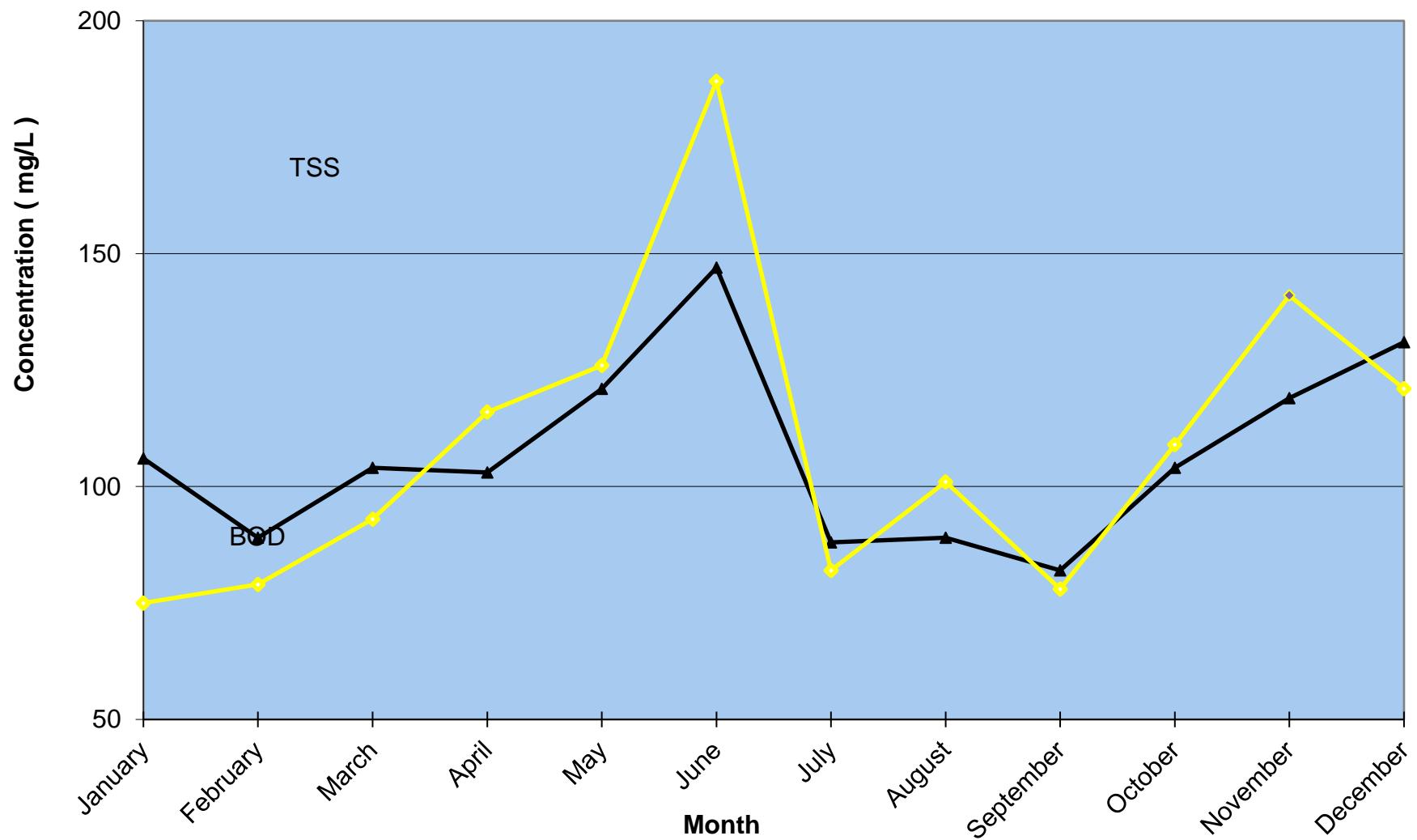
Municipality: Town of Petrolia

| | FLOWS | | RAW INFLUENT Monthly Average | | | | | FINAL EFFLUENT Monthly Average | | | | | | | Geomean Avg |
|-----------|------------------|-------------------|---------------------------------|------------|----------|--------------|-----------------------|-----------------------------------|------------|--------------|-----------------------|------------------|------------------|------------------|------------------|
| Month | Influent Flow m3 | Avg. Flows m3/Day | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | CBOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Nitrite NO2 mg/L | Nitrate NO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml |
| January | 48,543 | 1,566 | 106 | 75 | 33.7 | 4.5 | 262 | 2.3 | 3.3 | 0.71 | 64 | 0.020 | 13.7 | 0.59 | 3 |
| February | 51,384 | 1,772 | 89 | 79 | 23.1 | 3.5 | 251 | 3.8 | 3.2 | 0.57 | 59 | 0.019 | 13.1 | 0.21 | 6 |
| March | 74,285 | 2,396 | 104 | 93 | 30.3 | 4.1 | 297 | 2.0 | 3.4 | 0.56 | 82 | 0.016 | 12.6 | 0.09 | 12 |
| April | 57,911 | 1,930 | 103 | 116 | 32.1 | 4.1 | 283 | 3.0 | 2.8 | 0.33 | 92 | 0.058 | 13 | 0.40 | 16 |
| May | 56,886 | 1,835 | 121 | 126 | 43.1 | 5.1 | 302 | 2.0 | 2.9 | 0.48 | 69 | 0.035 | 16 | 0.16 | 2 |
| June | 51,015 | 1,701 | 147 | 187 | 37.0 | 5.9 | 274 | 2.2 | 2.4 | 0.38 | 36 | 0.020 | 17.1 | 0.17 | 2 |
| July | 57,847 | 1,866 | 88 | 82 | 28.8 | 4.2 | 209 | 2.0 | 2.2 | 0.60 | 23 | 0.079 | 20.5 | 0.09 | 2 |
| August | 66,478 | 2,144 | 89 | 101 | 29.0 | 4.4 | 214 | 2.0 | 3.8 | 0.53 | 34 | 0.078 | 16.3 | 0.29 | 2 |
| September | 57,045 | 1,902 | 82 | 78 | 24.5 | 3.6 | 188 | 2.0 | 1.7 | 0.40 | 22 | 0.070 | 13.8 | 0.08 | 2 |
| October | 54,785 | 1,767 | 104 | 109 | 26.4 | 3.9 | 199 | 2.0 | 2.5 | 0.39 | 21 | 0.058 | 15.1 | 0.20 | 2 |
| November | 51,905 | 1,730 | 119 | 141 | 29.8 | 3.8 | 211 | 2.0 | 1.6 | 0.36 | 28 | 0.098 | 15.9 | 0.16 | 3 |
| December | 53,784 | 1,735 | 131 | 121 | 31.9 | 3.7 | 240 | 3.0 | 1.9 | 0.19 | 47 | 0.096 | 14.2 | 0.15 | 2 |

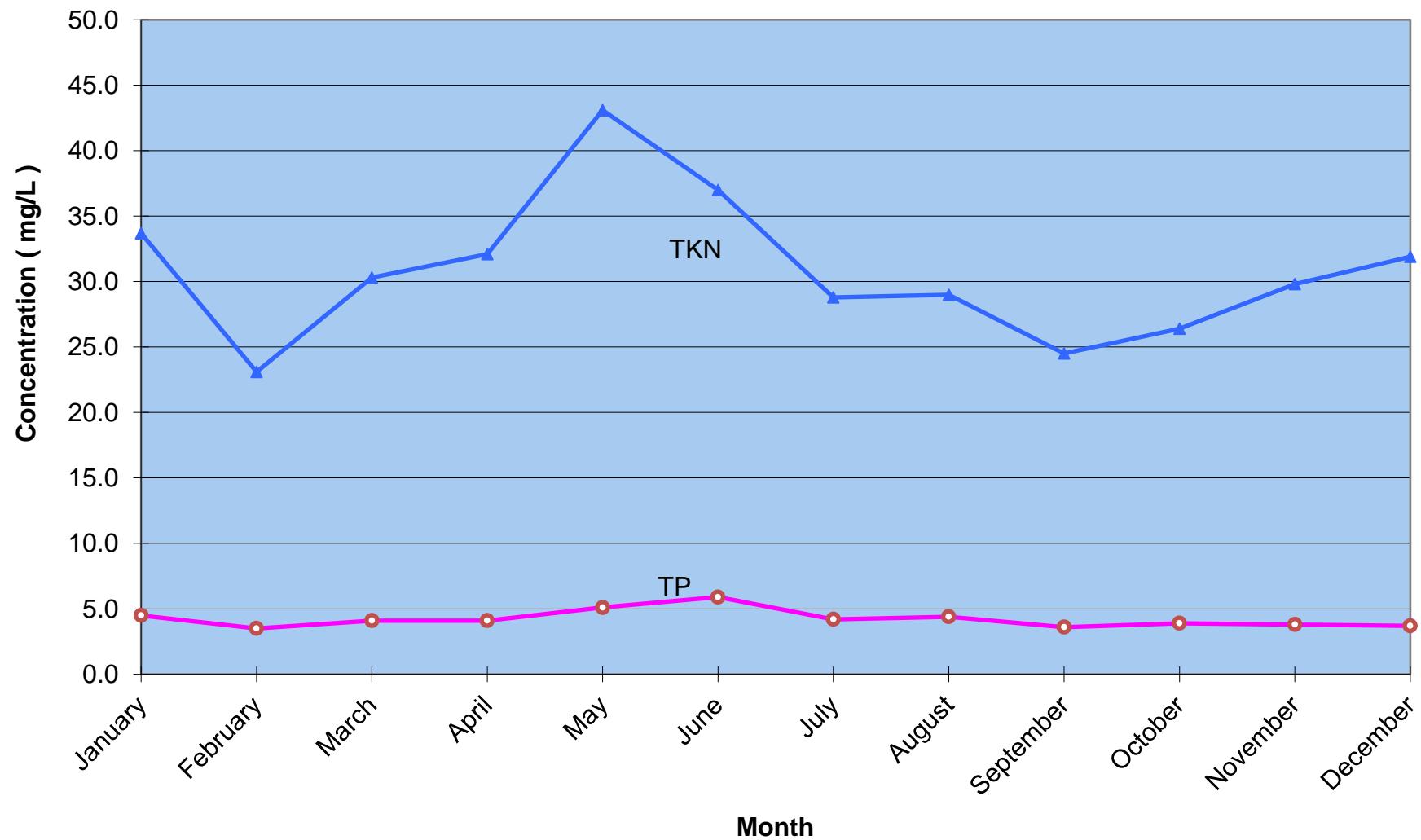
Total Flow m³ 681.868

Daily Average m³

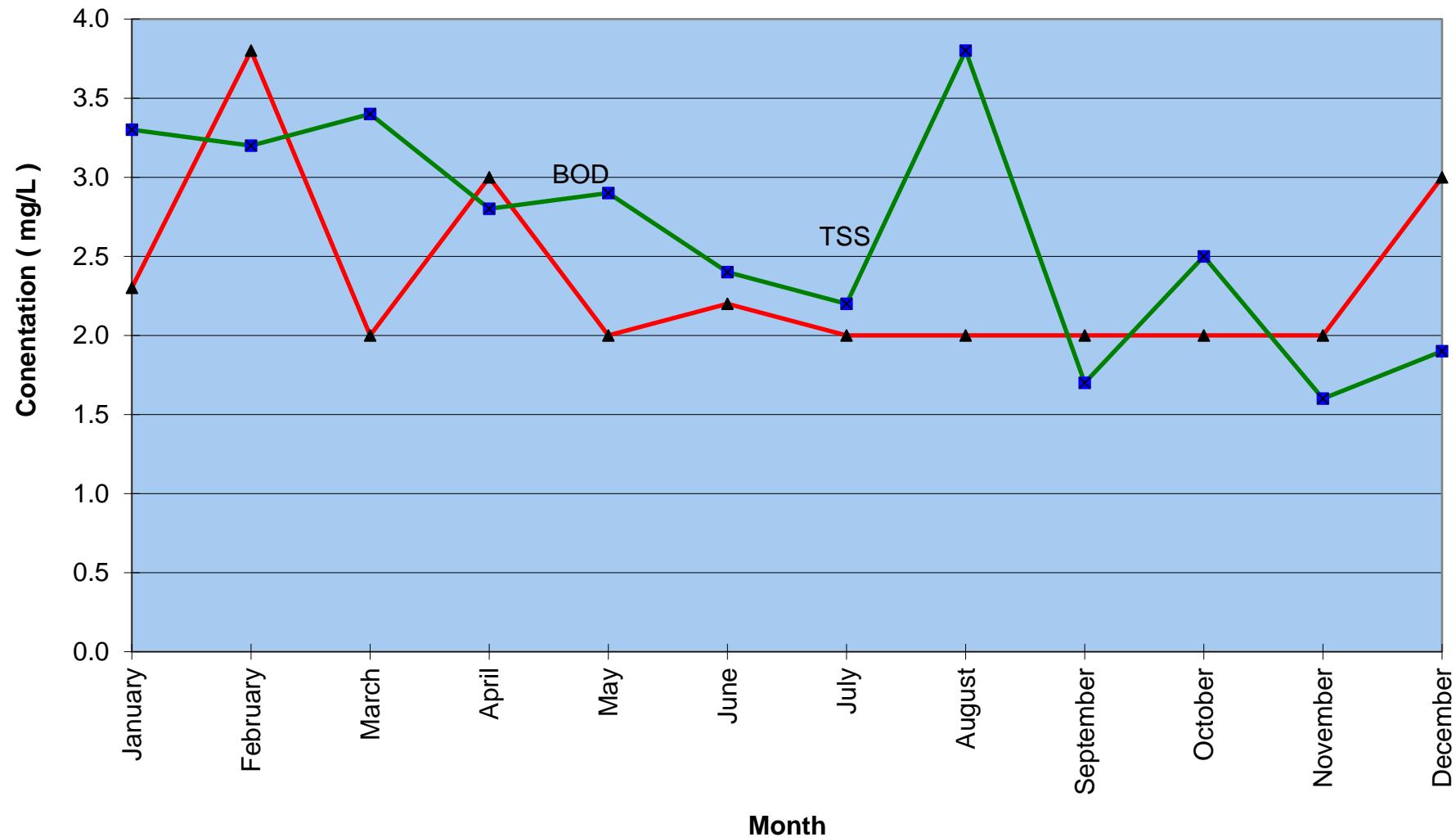
Petrolia W.P.C.P. 2016 Influent BOD and T.S.S.



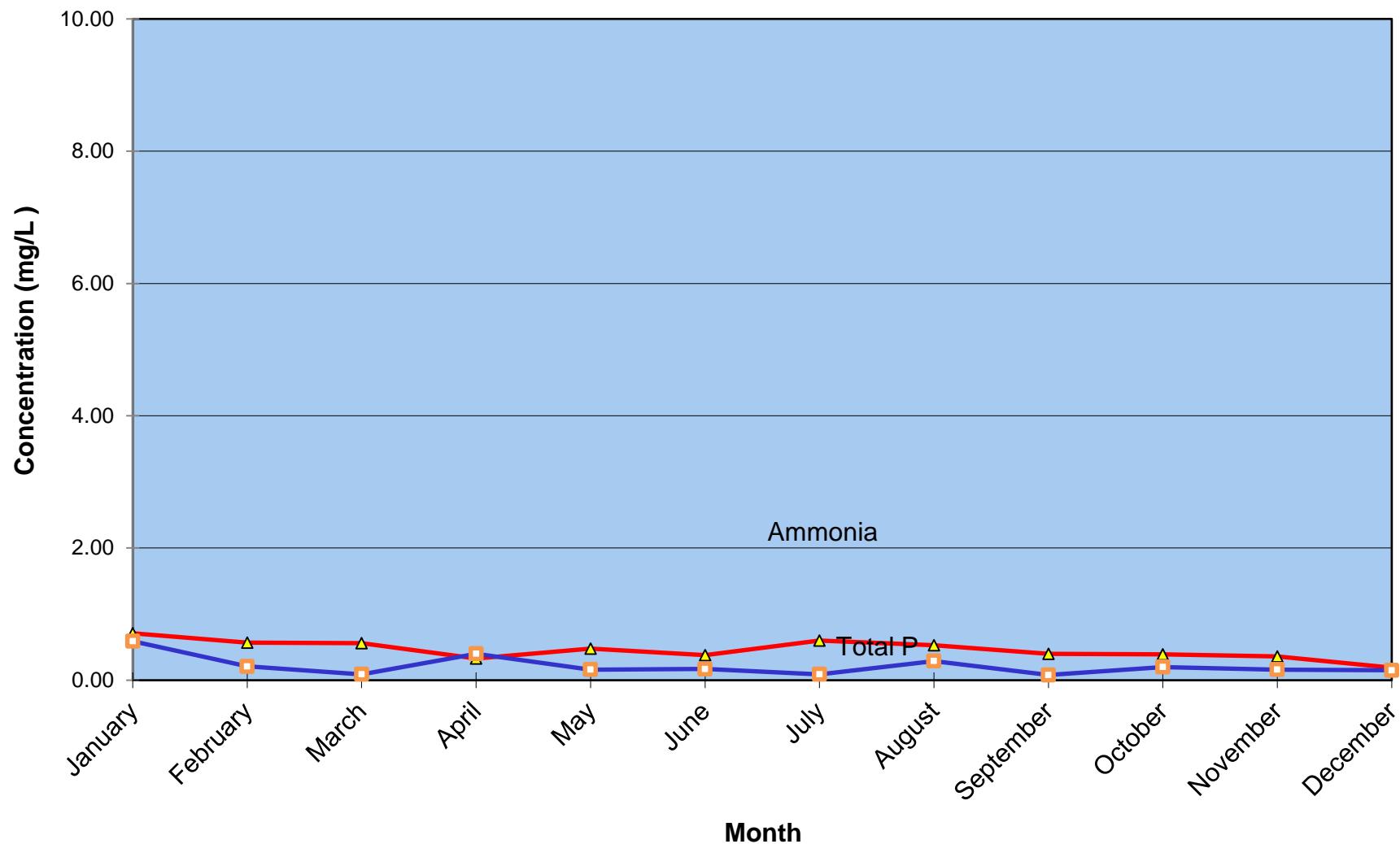
Petrolia W.P.C.P. 2016 Influent TKN and Total P



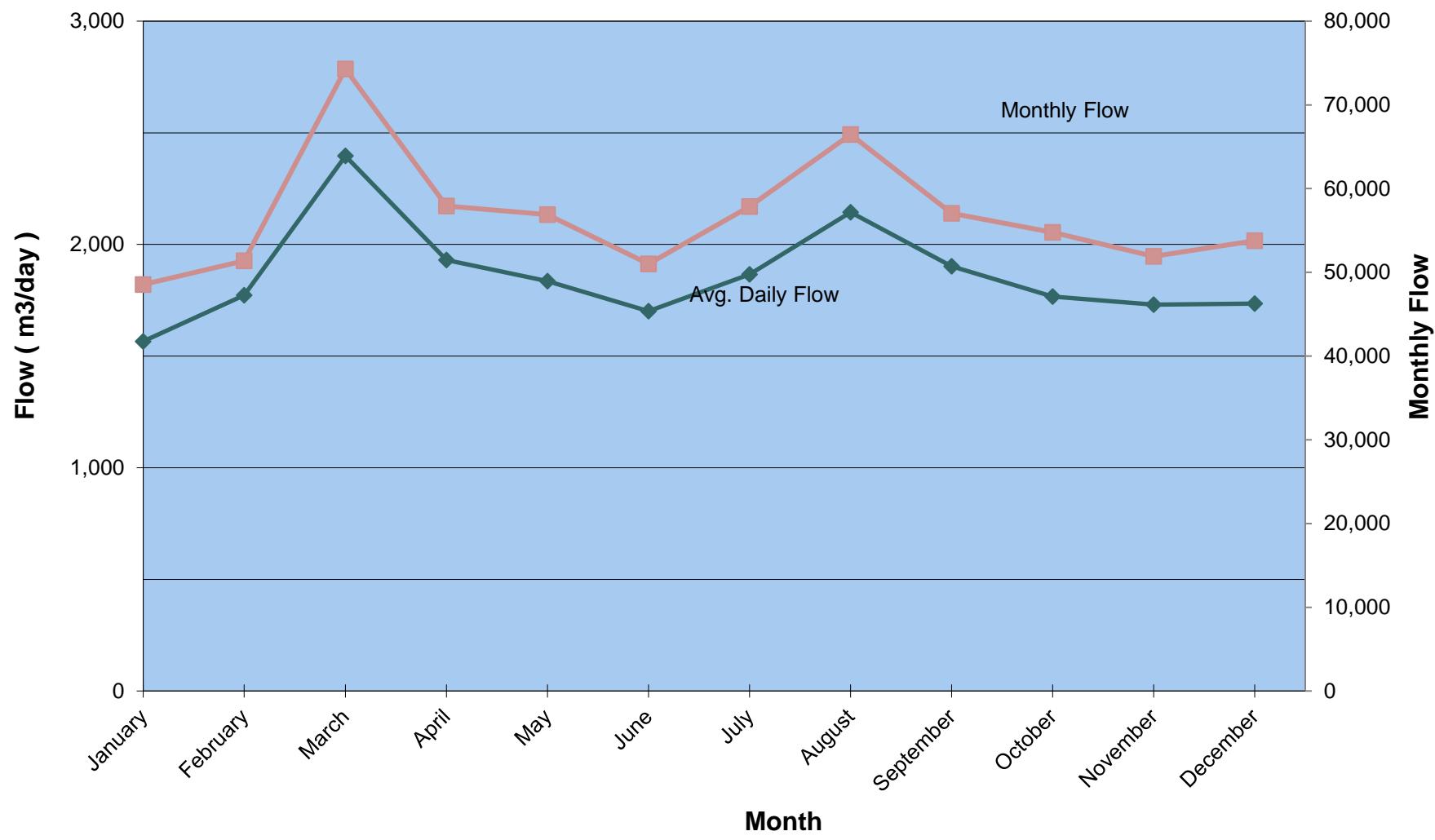
Petrolia W.P.C.P. 2016 Effluent BOD and TSS



Petrolia W.P.C.P. 2016 Effluent Total P & Ammonia



Petrolia W.P.C.P. 2016 Influent Flows



Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: January



| Date | East | West | Description of Flow |
|--------------|--------|---------|-----------------------------------------------------------------------------------------------------------|
| 1 | | 52.95 | Infiltration / also at MH in roadway |
| 2 | | 54.69 | Infiltration / also at MH in roadway |
| 3 | | 181.06 | False reading frozen foam under transducer |
| 4 | | 171.90 | Flush lagoon separation chamber with contact chamber flow |
| 5 | | 12.90 | Infiltration / also at MH in roadway |
| 6 | 61.87 | | Wasting to Lagoon |
| 7 | | 27.26 | Infiltration / also at MH in roadway |
| 8 | 438.66 | | Wasting to Lagoon / clean clarifiers, weirs, contact chamber |
| 9 | | 33.43 | Infiltration / also at MH in roadway |
| 10 | | 37.89 | Infiltration / also at MH in roadway |
| 11 | | 55.73 | Infiltration / also at MH in roadway / Heavy snowfall |
| 12 | | 24.29 | Infiltration / also at MH in roadway |
| 13 | | 18.67 | Infiltration / also at MH in roadway |
| 14 | 102.64 | | Wasting to Lagoon |
| 15 | 412.99 | | Wasting to Lagoon - Heavy rains in afternoon & evening - very warm day, also dumped 4" from East Aeration |
| 16 | | 72.10 | Infiltration / also at MH in roadway |
| 17 | | 57.92 | Infiltration / also at MH in roadway |
| 18 | | 58.72 | Infiltration / also at MH in roadway |
| 19 | | 48.47 | Infiltration / also at MH in roadway |
| 20 | | 57.87 | Infiltration / also at MH in roadway |
| 21 | | 115.22 | Flush lagoon separation chamber with contact chamber flow |
| 22 | | 15.45 | Infiltration / also at MH in roadway |
| 23 | | 11.74 | Infiltration / also at MH in roadway |
| 24 | | 47.03 | Infiltration / also at MH in roadway / rains thru night and this morning |
| 25 | | 60.68 | Infiltration / also at MH in roadway / weather is warm snow is melting |
| 26 | | 21.54 | Infiltration / also at MH in roadway |
| 27 | | 17.22 | Infiltration / also at MH in roadway |
| 28 | 173.52 | | Wasting to Lagoon |
| 29 | | 16.41 | Infiltration / also at MH in roadway |
| 30 | | 18.10 | Infiltration / also at MH in roadway |
| 31 | | 33.47 | Infiltration / also at MH in roadway |
| Total | 1189.7 | 1322.71 | |

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: February



| Date | East | West | Description of Flow |
|--------------|----------------|----------------|-----------------------------------------------------------------------------------------------------|
| 1 | | 67.50 | Infiltration / also at MH in roadway, pumping roadway ditches into MH - rains thru night last night |
| 2 | 589.33 | | Wasting to Lagoon-clean clarifiers,weirs,contact chamber, rains in evening & overnight |
| 3 | | 90.19 | Infiltration / also at MH in roadway, pumping roadway ditches into MH |
| 4 | | 35.58 | Infiltration / also at MH in roadway |
| 5 | 171.41 | | Wasting to Lagoon |
| 6 | | 80.90 | Infiltration / also at MH in roadway |
| 7 | | 82.39 | Infiltration / also at MH in roadway |
| 8 | 598.32 | | Clean alum channel, clarifiers, weirs, contact chamber - rains thru day today |
| 9 | | 55.95 | Infiltration / also at MH in roadway, pumping roadway ditches into MH |
| 10 | | 55.14 | Infiltration / also at MH in roadway, pumping roadway ditches into MH |
| 11 | | 19.90 | Infiltration / also at MH in roadway, construction company patching leak in MH at roadway |
| 12 | 230.77 | | Wasting to Lagoon |
| 13 | | 13.52 | Infiltration |
| 14 | | 12.15 | Infiltration |
| 15 | | 57.54 | Infiltration |
| 16 | 68.34 | | Wasting to Lagoon |
| 17 | 238.70 | | Wasting to Lagoon |
| 18 | | 11.63 | Infiltration |
| 19 | 146.60 | | Wasting to lagoon |
| 20 | | 29.96 | Infiltration |
| 21 | | 27.32 | Infiltration |
| 22 | | 31.90 | Infiltration |
| 23 | | 29.48 | Infiltration |
| 24 | | 476.09 | Infiltration / Heavy rains thru night and all day today - surge tank overflowing |
| 25 | | 82.18 | Infiltration / skim filter influent channel |
| 26 | 214.10 | | Waste to Lagoon |
| 27 | | 33.35 | Infiltration |
| 28 | | 39.54 | Infiltration |
| 29 | | 52.31 | Infiltration |
| 30 | | | |
| 31 | | | |
| Total | 2257.57 | 1384.52 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: March



| Date | East | West | Description of Flow |
|--------------|---------------|-----------------|------------------------------------------------------------------------------------------------------------------|
| 1 | | 30.61 | Infiltration |
| 2 | | 23.32 | Infiltration - rains thru night and snow melting |
| 3 | | 23.91 | Infiltration |
| 4 | | 302.29 | False reading - foam under transducer (weekend) |
| 5 | | 244.60 | False reading - foam under transducer (weekend) |
| 6 | | 108.43 | False reading - foam under transducer (weekend) |
| 7 | | 217.91 | False reading - foam under transducer - flush chamber with contact chamber flow (Monday) |
| 8 | | 48.87 | Infiltration |
| 9 | 243.87 | | Wasting to Lagoon |
| 10 | | 26.08 | Infiltration |
| 11 | | 83.07 | Infiltration |
| 12 | | 47.91 | Infiltration |
| 13 | | 43.41 | Infiltration |
| 14 | 406.81 | | Clean clarifiers, weirs, contact chamber |
| 15 | | 18.81 | Infiltration - construction crew draining ditches into MH in roadway |
| 16 | | 27.16 | Infiltration - Heavy rains and storms thru night and day today |
| 17 | | 22.50 | Infiltration |
| 18 | | 19.27 | Infiltration |
| 19 | | 24.74 | Infiltration |
| 20 | | 20.42 | Infiltration |
| 21 | | 22.39 | Infiltration |
| 22 | | 32.50 | Infiltration |
| 23 | | 27.89 | Infiltration |
| 24 | | 7763.40 | Rains thru night and day today, extremely heavy rains for 6 Hrs, (false reading, foam and rags impeding reading) |
| 25 | | 910.50 | Infiltration, surge tank full and overflowing to lagoon |
| 26 | | 56.56 | Infiltration |
| 27 | | 265.40 | Infiltration, Heavy rains in late afternoon, surge tank full and overflowing to lagoon |
| 28 | | 7279.18 | Heavy rains thru night and day today (false reading transducer has rags impeding reading - cleaned transducer) |
| 29 | | 48.20 | Infiltration |
| 30 | | 40.05 | Infiltration |
| 31 | | 434.80 | Infiltration, Heavy rains thru night and all day today, surge tank overflowing to lagoon |
| Total | 650.68 | 18214.18 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: April



| Date | East | West | Description of Flow |
|--------------|----------------|----------------|--------------------------------------------------------------------------------------------------------------|
| 1 | | 39.69 | Infiltration, rains thru the day yesterday |
| 2 | | 557.06 | Infiltration (false reading) weekend |
| 3 | | 129.63 | Infiltration (false reading) weekend |
| 4 | | 327.98 | Infiltration (false reading) grease blocks in lagoon chamber - cleaned lagoon influent chamber |
| 5 | | 172.94 | Infiltration (Fase reading) cleaned transducer in lagoon influent chamber |
| 6 | | 307.43 | Cleaned filter, influent chamber, spraying filter walls, rains thru the day |
| 7 | 821.55 | | Divert flow from main pump station to lagoons for construction company to tap into forcemain with new piping |
| 8 | | 30.09 | Infiltration |
| 9 | | 25.90 | Infiltration |
| 10 | | 28.87 | Infiltration |
| 11 | | 72.69 | Infiltration, rains thru night last night and this morning |
| 12 | 408.66 | | Clean clarifiers, weirs, contact chamber |
| 13 | | 25.91 | Infiltration |
| 14 | | 21.86 | Infiltration |
| 15 | | 19.13 | Infiltration |
| 16 | | 17.24 | Infiltration |
| 17 | | 23.27 | Infiltration |
| 18 | 289.22 | | Clean clarifiers, weirs, contact chamber |
| 19 | | 40.19 | Infiltration |
| 20 | | 34.72 | Infiltration |
| 21 | | 40.40 | Infiltration |
| 22 | | 34.12 | Infiltration |
| 23 | | 22.95 | Infiltration |
| 24 | | 18.10 | Infiltration |
| 25 | 414.74 | | Clean clarifiers, weirs, contact chamber |
| 26 | 510.35 | | Clean clarifiers, weirs, contact chamber |
| 27 | | 12.51 | Infiltration |
| 28 | | 14.55 | Infiltration |
| 29 | | 14.91 | Infiltration |
| 30 | | 14.50 | Infiltration |
| Total | 2444.52 | 2046.64 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: May



| Date | East | West | Description of Flow |
|--------------|-------------|---------------|------------------------------------------------------------------------------------|
| 1 | | 31.4 | Infiltration |
| 2 | | 26.7 | Infiltration |
| 3 | | 31.9 | Infiltration |
| 4 | | 33.3 | Infiltration |
| 5 | | 28.7 | Infiltration |
| 6 | | 27.4 | Infiltration |
| 7 | | 22.6 | Infiltration |
| 8 | | 23.5 | Infiltration |
| 9 | | 21.3 | Infiltration |
| 10 | | 23.7 | Infiltration |
| 11 | | 21.8 | Infiltration |
| 12 | | 25.7 | Infiltration |
| 13 | | 28.5 | Infiltration |
| 14 | | 26.5 | Infiltration |
| 15 | | 24.4 | Infiltration |
| 16 | | 22.5 | Infiltration |
| 17 | | 21.8 | Infiltration |
| 18 | | 23.2 | Infiltration |
| 19 | 779 | | clean clarifiers, weirs, contact chamber, alum channel, aeration effluent channels |
| 20 | 181 | | Wasting from digesters |
| 21 | | 30.7 | Infiltration |
| 22 | | 28.9 | Infiltration |
| 23 | | 20.2 | Infiltration |
| 24 | | 24.7 | Infiltration |
| 25 | 235 | | Wasting from digesters |
| 26 | 810 | | Sauls cleaning filter channels, Sauls hauling loads from Water Treatment plant |
| 27 | 269 | | Wasting from digesters |
| 28 | | 26.1 | Infiltration |
| 29 | | 24.0 | Infiltration |
| 30 | 360 | | Wasting from digesters |
| 31 | | 23.2 | Infiltration |
| Total | 2634 | 642.45 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: June



| Date | East | West | Description of Flow |
|--------------|---------------|---------------|-------------------------------------------------------------------------------|
| 1 | | 73.4 | False reading -flush lagoon chamber- clean transducer (spider webs) |
| 2 | 450.4 | | Clean clarifiers/weirs/contact chamber/alum channel/aeration effluent channel |
| 3 | | 10.4 | Infiltration |
| 4 | | 13.1 | Infiltration |
| 5 | | 55.3 | Thunderstorms & rains |
| 6 | 301.4 | | Wasting to lagoon |
| 7 | | 55.0 | Infiltration |
| 8 | 404.1 | | Wasting to lagoon |
| 9 | | 19.6 | Infiltration |
| 10 | | 22.9 | Infiltration |
| 11 | | 36.8 | Infiltration |
| 12 | | 36.2 | Infiltration |
| 13 | | 35.3 | Infiltration |
| 14 | | 34.4 | Infiltration |
| 15 | 517.0 | | Clean clarifiers/weirs/contact chamber/alum channel |
| 16 | 678.0 | | Clean filter/filter channel/aeration effluent |
| 17 | | 19.4 | Infiltration |
| 18 | | 16.7 | Infiltration |
| 19 | | 12.9 | Infiltration |
| 20 | | 23.5 | Infiltration |
| 21 | | 13.6 | Infiltration |
| 22 | 359.0 | | |
| 23 | | 15.4 | Infiltration |
| 24 | 272.0 | | |
| 25 | | 64.7 | False reading / cleaned transducer |
| 26 | | 91.4 | Infiltration / thunderstorms and rain |
| 27 | | 30.3 | Infiltration |
| 28 | 42.3 | | Flood and skim filter influent channel |
| 29 | | 42.2 | Infiltration |
| 30 | | 14.2 | Infiltration |
| 31 | | | |
| Total | 3024.2 | 736.65 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: July



| Date | East | West | Description of Flow |
|--------------|--------|---------|---------------------------------------------------------------------------|
| 1 | | 38.24 | Infiltration |
| 2 | | 32.69 | Infiltration |
| 3 | | 31.53 | Infiltration |
| 4 | 562.1 | | Clean aeration channels, alum channel, clarifiers, weirs, contact chamber |
| 5 | | 39.72 | Infiltration |
| 6 | 115.3 | | Flood and skim filter influent channel |
| 7 | 373.6 | | Wasting from digesters, flush lagoon chamber with contact chamber flow |
| 8 | | 21.56 | Infiltration |
| 9 | | 16.45 | Infiltration |
| 10 | | 18.29 | Infiltration |
| 11 | 216.6 | | Wasting to Lagoon |
| 12 | | 1193.80 | Filter hood plugged, diverted flow and cleaned |
| 13 | | 26.59 | Infiltration |
| 14 | | 22.14 | Infiltration |
| 15 | | 20.56 | Infiltration |
| 16 | | 21.20 | Infiltration |
| 17 | | 18.49 | Infiltration |
| 18 | 93.19 | | Wasting to Lagoon |
| 19 | | 20.65 | Infiltration |
| 20 | 241.4 | | Wasting to Lagoon |
| 21 | | 32.56 | Infiltration |
| 22 | | 27.46 | Infiltration |
| 23 | | 23.81 | Infiltration |
| 24 | | 19.46 | Infiltration |
| 25 | 84.61 | | Wasting to Lagoon |
| 26 | | 17.40 | Infiltration |
| 27 | | 15.29 | Infiltration |
| 28 | | 16.79 | Infiltration |
| 29 | | 20.34 | Infiltration |
| 30 | | 19.45 | Infiltration |
| 31 | | 93.41 | Heavy rains today at 15:30, surge tank overflowing |
| Total | 1686.8 | 1807.88 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: August



| Date | East | West | Description of Flow |
|--------------|--------|--------|----------------------------------------------------------------------------------|
| 1 | | 14.0 | Infiltration |
| 2 | 286 | | Waste to lagoon |
| 3 | | 210.0 | Clean clarifiers, weirs, contact chamber |
| 4 | | 13.6 | Infiltration |
| 5 | | 17.2 | Infiltration |
| 6 | | 11.6 | Infiltration |
| 7 | | 9.8 | Infiltration |
| 8 | | 9.9 | Infiltration |
| 9 | | 11.9 | Infiltration |
| 10 | 156.2 | | Flooded and skimmed Filter Influent channel |
| 11 | 1096.2 | | Filter washwater pump bracket broke - divert flow |
| 12 | 1452.4 | | Repairing Filter & Sauls on-site cleaning surge tank and Filter Influent channel |
| 13 | | 876.9 | Heavy rains for 1 day, surge tank overflowing |
| 14 | | 27.4 | Infiltration |
| 15 | 158.2 | | Wasting to lagoon |
| 16 | | 315.6 | Heavy rains thru night and this morning, surge tank overflowing |
| 17 | | 20.3 | Infiltration |
| 18 | 218.4 | | Wasting to lagoon |
| 19 | | 21.6 | Infiltration |
| 20 | | 18.4 | Infiltration |
| 21 | | 20.9 | Infiltration |
| 22 | | 19.7 | Infiltration |
| 23 | | 20.4 | Infiltration |
| 24 | | 21.7 | Infiltration |
| 25 | | 405.2 | Heavy rains in afternoon, surge tank overflowing |
| 26 | | 25.5 | Infiltration |
| 27 | | 21.7 | Infiltration |
| 28 | | 18.4 | Infiltration |
| 29 | | 15.5 | Infiltration |
| 30 | 183.4 | | Wasting to lagoon |
| 31 | | 18.1 | Infiltration |
| Total | 3550.8 | 2165.2 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: September



| Date | East | West | Description of Flow |
|--------------|---------|--------|----------------------------------------------------------------------|
| 1 | | 19.8 | Infiltration |
| 2 | | 17.2 | Infiltration |
| 3 | | 26.7 | Infiltration |
| 4 | | 24.4 | Infiltration |
| 5 | | 21.8 | Infiltration |
| 6 | 343.3 | | Clean clarifiers, weirs, contact chamber |
| 7 | | 25.0 | Infiltration |
| 8 | 157.8 | | Waste to lagoon |
| 9 | | 27.7 | Infiltration |
| 10 | | 43.2 | Infiltration |
| 11 | | 24.6 | Infiltration |
| 12 | | 18.4 | Infiltration |
| 13 | 503.4 | | Waste to lagoon, clean clarifiers, weirs, contact chamber |
| 14 | | 10.4 | Infiltration |
| 15 | | 10.1 | Infiltration |
| 16 | 216.5 | | Waste to lagoon |
| 17 | | 28.2 | Infiltration |
| 18 | | 21.6 | Infiltration |
| 19 | | 19.7 | Infiltration |
| 20 | 402.4 | | Waste to lagoon |
| 21 | | 18.8 | Infiltration |
| 22 | | 20.6 | Infiltration |
| 23 | | 18.4 | Infiltration |
| 24 | | 16.6 | Infiltration |
| 25 | | 13.1 | Infiltration |
| 26 | | 17.4 | Infiltration |
| 27 | | 10.5 | Infiltration |
| 28 | | 49.4 | Rains all through nite and into morning |
| 29 | 1847.10 | | Cleaned filter hood, Wasting to Lagoon, Heavy rains throught the day |
| 30 | | 26.6 | Infiltration |
| 31 | | | |
| Total | 3470.5 | 530.26 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: October



| Date | East | West | Description of Flow |
|--------------|--------------|--------------|-------------------------------------------------------------|
| 1 | | 20.5 | Infiltration |
| 2 | | 23.7 | Infiltration |
| 3 | | 21.1 | Infiltration |
| 4 | 286.9 | | Wasting to Lagoon, clean clarifiers, weirs, contact chamber |
| 5 | | 25.8 | Infiltration |
| 6 | | 15.0 | Infiltration |
| 7 | | 15.9 | Infiltration |
| 8 | | 14.4 | Infiltration |
| 9 | | 13.5 | Infiltration |
| 10 | | 19.9 | Infiltration |
| 11 | | 17.2 | Infiltration |
| 12 | | 23.7 | Infiltration, light rains thru the night last night |
| 13 | 146.9 | | Wasting to Lagoon |
| 14 | | 19.7 | Infiltration |
| 15 | | 16.2 | Infiltration |
| 16 | | 18.7 | Infiltration |
| 17 | | 19.4 | Infiltration |
| 18 | | 17.8 | Infiltration |
| 19 | | 18.9 | Infiltration |
| 20 | | 38.1 | Infiltration, rains thru the day |
| 21 | | 47.6 | Infiltration, rains all thru night and part of today |
| 22 | | 51.9 | Infiltration, light rains through day |
| 23 | | 37.6 | Infiltration |
| 24 | | 51.9 | Infiltration, rains overnight |
| 25 | | 40.3 | Infiltration |
| 26 | | 48.7 | Infiltration, rains in late evening |
| 27 | | 50.6 | Infiltration, rains all through the night and into today |
| 28 | | 41.9 | Infiltration |
| 29 | | 33.6 | Infiltration |
| 30 | | 28.4 | Infiltration, rains in morning |
| 31 | | 33.2 | Infiltration |
| Total | 433.8 | 825.2 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: November



| Date | East | West | Description of Flow |
|--------------|--------|--------|-------------------------------------------------------------------------------------------------------|
| 1 | 648.8 | | Wasting to lagoon, Clean clarifiers, weirs, contact chamber |
| 2 | 209.3 | | Wasting to lagoon |
| 3 | 159.3 | | CT on-site cleaning pump station wet wells @ Glenview, Greenfield, Ella. Rains thru night and morning |
| 4 | | 836.5 | Infiltration, false reading grease in chamber - cleaned chamber and transducer |
| 5 | | 63.5 | Infiltration |
| 6 | | 46.1 | Infiltration |
| 7 | | 43.1 | Infiltration |
| 8 | | 37.3 | Infiltration |
| 9 | | 36.9 | Infiltration |
| 10 | 238.5 | | Wasting to lagoon |
| 11 | | 31.7 | Infiltration |
| 12 | | 27.9 | Infiltration |
| 13 | | 24.6 | Infiltration |
| 14 | | 28.1 | Infiltration |
| 15 | | 23.6 | Infiltration |
| 16 | | 26.5 | Infiltration |
| 17 | 206.7 | | Wasting to lagoon |
| 18 | | 38.6 | Infiltration |
| 19 | | 32.8 | Infiltration, light rains thru day |
| 20 | | 36.7 | Infiltration, rains through nite and snow |
| 21 | | 29.4 | Infiltration |
| 22 | | 28.3 | Infiltration |
| 23 | 210.5 | | Wasting to lagoon |
| 24 | | 87.3 | Infiltration, rains through night and all day today |
| 25 | | 96.1 | Infiltration, rains through night and drizzly rain today |
| 26 | | 69.7 | Infiltration |
| 27 | | 59.2 | Infiltration |
| 28 | | 52.8 | Infiltration |
| 29 | | 53.4 | Infiltration |
| 30 | | 47.6 | Infiltration |
| 31 | | | |
| Total | 1673.1 | 1857.6 | |

Flow recorder changes over at midnight / Flow is read the following morning

Petrolia WPCP Flow Diversion to Lagoons

Year: 2016 Month: December



| Date | East | West | Description of Flow |
|--------------|-------|---------|----------------------------------------------------------------------------------------------------------|
| 1 | | 96.40 | Rains thru the night and this morning |
| 2 | 301.7 | | Infiltration, wasting to lagoon |
| 3 | | 61.90 | Infiltration |
| 4 | | 53.70 | Infiltration |
| 5 | | 41.10 | Infiltration |
| 6 | | 40.80 | Infiltration |
| 7 | | 63.70 | Infiltration, rains through the night |
| 8 | | 51.80 | Infiltration |
| 9 | 366.2 | | Wasting to lagoon, clean clarifiers, weirs, contact chamber |
| 10 | | 73.90 | Infiltration |
| 11 | | 60.80 | Infiltration |
| 12 | | 53.60 | Infiltration |
| 13 | | 51.10 | Infiltration |
| 14 | 239.7 | | Infiltration, wasting to lagoon |
| 15 | | 64.70 | Infiltration |
| 16 | | 57.20 | Infiltration |
| 17 | | 53.80 | Infiltration |
| 18 | | 57.40 | Infiltration |
| 19 | | 1631.70 | surge tank overflowing - pipe between tank and filter froze (??) (installed a space heater to thaw pipe) |
| 20 | | 1793.40 | surge tank overflowing - pipe between tank and filter froze (??) |
| 21 | | 1776.20 | surge tank overflowing - troubleshooting pipe blockage |
| 22 | | 1683.50 | Central Sanitation on site cleaning surge tank pipe - Duck was caught in pipe |
| 23 | | 97.40 | Infiltration |
| 24 | | 93.40 | Infiltration |
| 25 | | 87.60 | Infiltration |
| 26 | | 106.90 | Infiltration, Heavy rains all day, snow melting lots of flow |
| 27 | | 96.40 | Infiltration, rains through day, snow melting |
| 28 | | 87.1 | Infiltration |
| 29 | | 76.40 | Infiltration |
| 30 | | 73.80 | Infiltration |
| 31 | | 68.10 | Infiltration |
| Total | 907.6 | 8553.80 | |

Flow recorder changes over at midnight / Flow is read the following morning

| | | | |
|------------------|--------------------------------------------------------|----------------------|------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | | |
|----------|-----------------|--------------------|-------------------|-------------------------|---------------------------|------------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 1 16 | Year 1 1 19 | Days 3 1 20 21 | Discharge Type 2 22 | Update Code R 80 |

| | | | | |
|-------------|--------------------|--------------------------------------------------|------|-----------------|
| C.P. 0 1 | FLows | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10 ³ m ³) 5 0 0 1 0 | 3 | 4 8 . 5 4 3 |
| | Average Daily Flow | (10 ³ m ³ /d) 5 0 0 1 5 | 3 | 1 . 5 6 6 |
| | Maximum Daily Flow | (10 ³ m ³ /d) 5 0 0 2 0 | 3 | 2 . 2 9 8 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------------|------------------------------------------------|----|----|
| 2 6 | BYPASS | # of Occurrences | | |
| 12 13 | Plant Bypass Volume | (10 ³ m ³) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10 ³ m ³) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------|---------------------|----|---------|
| 0 3 | RAW SEWAGE | # of Samples | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 0 6 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 7 5 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 3 3 . 7 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 4 . 5 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-----------------------|---------------------|----|-------|
| 0 4 | FINAL EFFLUENT | # of Samples | | |
| 12 13 | CBOD5 | (mg/L) 0 0 0 0 1 | 1 | 2 . 3 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 3 3 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | . 5 9 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | . 7 1 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|------------------------------------------------|-----------|----|----|
| 0 7 | DISINFECTION | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Return completed blue form to:

| | | | |
|------------------|--------------------------------------------------------|----------------------|------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | |
|----------|-----------------|--------------|-------------|----------------|-------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 2 | Year 1 6 | 2 8 | 2 |
| 1 2 | 3 11 | 16 19 | 20 21 | 22 | 80 |

| | | | | |
|-------|--------------------|-----------------------------------------------|------|-----------------|
| C.P. | 0 1 FLOWS | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10 ³ m ³) 5 0 0 1 0 | 3 | 5 1 . 3 8 4 |
| | Average Daily Flow | (10 ³ m ³ /d) 5 0 0 1 5 | 3 | 1 . 7 7 2 |
| | Maximum Daily Flow | (10 ³ m ³ /d) 5 0 0 2 0 | 3 | 3 . 0 6 5 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------|-------------------------|---------------------------------------------|----|----|
| 2 6 BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10 ³ m ³) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10 ³ m ³) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-----------------------|------------------|------------------|----|---------|
| 0 3 RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 8 9 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 7 9 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 2 3 . 1 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 3 . 5 |
| | | 30 34 | 35 | 38 |

| | | | | |
|---------------------------|--------------------|------------------|----|-------|
| 0 4 FINAL EFFLUENT | | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 3 . 8 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 3 . 2 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | . 2 1 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | . 5 7 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------------|------------------------------------------------|-----------|----|----|
| 0 7 DISINFECTION | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Return completed blue form to:

| | | | |
|------------------|--------------------------------------------------------|----------------------|------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | | |
|----------|-----------------|--------------|-------------|----------------|---------------------|------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 3 | Year 1 6 | Days 3 1 | Discharge Type 2 | Update Code R |
| 1 2 | 3 11 | 16 19 | 20 21 | 22 | 80 | |

| | | | | | |
|--------------------|---------------------------------|------------------------|----------------|-----------|-----------------|
| C.P. | 0 1 | FLows | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10^3 m^3) | 5 0 0 1 0 | 3 | 7 4 . 2 8 5 |
| Average Daily Flow | ($10^3 \text{ m}^3/\text{d}$) | 5 0 0 1 5 | 3 | 2 . 3 9 6 | |
| Maximum Daily Flow | ($10^3 \text{ m}^3/\text{d}$) | 5 0 0 2 0 | 3 | 9 . 6 9 2 | |
| | | 30 34 | 35 | 38 | |

| | | | | | |
|-------------------------|------------------------|------------------------|-----------|----|---|
| 2 6 | BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10^3 m^3) | 5 0 0 2 6 | 3 | . |
| Duration | (hours) | 8 0 5 6 3 | 1 | . | |
| Secondary Bypass Volume | (10^3 m^3) | 5 0 0 4 0 | 3 | . | |
| Duration | (hours) | 8 0 5 6 5 | 1 | . | |
| | | 30 34 | 35 | 38 | |

| | | | | | |
|------------------|-------------------|--------------|-----------|---------|---------|
| 0 3 | RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) | 0 0 0 0 1 | 0 | 1 0 4 . |
| Suspended Solids | (mg/L) | 0 0 0 0 6 | 0 | 9 3 . | |
| TKN | (mg/L) | 0 0 0 2 0 | 2 | 3 0 . 3 | |
| Total Phosphorus | (mg/L) | 0 0 0 3 3 | 1 | 4 . 1 | |
| | | 30 34 | 35 | 38 | |

| | | | | | |
|--------------------|-----------------------|--------------|-----------|-------|-------|
| 0 4 | FINAL EFFLUENT | # of Samples | | | |
| 12 13 | CBOD ₅ | (mg/L) | 0 0 0 0 1 | 1 | 2 . 0 |
| Suspended Solids | (mg/L) | 0 0 0 0 6 | 1 | 3 . 4 | |
| Ammonia + Ammonium | (mg/L) | 0 0 0 1 9 | 2 | . 0 9 | |
| TKN | (mg/L) | 0 0 0 2 0 | 2 | . | |
| Total Phosphorus | (mg/L) | 0 0 0 3 3 | 2 | . 5 6 | |
| | | 30 34 | 35 | 38 | |

| | | | | | | |
|------------------------------------------------|------------------------------------------|--|-----------|----|----|--|
| 0 7 | DISINFECTION | | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | | 5 0 1 0 0 | 1 | . | |
| Chlorine Dosage - (mg/L as Cl ₂) | | | 8 0 4 1 0 | 1 | . | |
| Chlorine Residual - (mg/L as Cl ₂) | | | 8 0 4 2 0 | 1 | . | |
| | | | 30 34 | 35 | 38 | |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Return completed blue form to:

| | | | |
|------------------|--------------------------------------------------------|----------------------|------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | | |
|----------|-----------------|--------------|-------------|----------------|---------------------|------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 4 | Year 1 6 | Days 3 0 | Discharge Type 2 | Update Code R |
| 1 2 | 3 11 | 16 19 | 20 21 | 22 | 80 | |

| | | | | |
|-------|--------------------|-------------------------------------------|------|-----------------|
| C.P. | 0 1 FLOWS | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10^3 m^3) 5 0 0 1 0 | 3 | 5 7 . 9 1 1 |
| | Average Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 1 5 | 3 | 1 . 9 3 0 |
| | Maximum Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 2 0 | 3 | 3 . 3 5 4 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------|-------------------------|----------------------------------|----|----|
| 2 6 BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10^3 m^3) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10^3 m^3) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-----------------------|------------------|------------------|----|---------|
| 0 3 RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 0 3 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 1 1 6 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 3 2 . 1 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 4 . 1 |
| | | 30 34 | 35 | 38 |

| | | | | |
|---------------------------|--------------------|------------------|----|---------|
| 0 4 FINAL EFFLUENT | # of Samples | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 3 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 2 . 8 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 4 0 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 3 3 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------------|------------------------------------------------|-----------|----|----|
| 0 7 DISINFECTION | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

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| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | | |
|----------|-----------------|--------------------|-------------------|----------------------|---------------------------|------------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 5 16 | Year 1 6 19 | Days 3 1 20 21 | Discharge Type 2 22 | Update Code R 80 |

| | | | | |
|-------------|--------------------|--------------------------------------------------|------|-----------------|
| C.P. 0 1 | FLows | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10 ³ m ³) 5 0 0 1 0 | 3 | 5 6 . 8 8 6 |
| | Average Daily Flow | (10 ³ m ³ /d) 5 0 0 1 5 | 3 | 1 . 8 3 5 |
| | Maximum Daily Flow | (10 ³ m ³ /d) 5 0 0 2 0 | 3 | 2 . 5 1 9 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------------|------------------------------------------------|----|----|
| 2 6 | BYPASS | # of Occurrences | | |
| 12 13 | Plant Bypass Volume | (10 ³ m ³) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10 ³ m ³) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------|---------------------|----|---------|
| 0 3 | RAW SEWAGE | # of Samples | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 2 1 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 1 2 6 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 4 3 . 1 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 5 . 1 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-----------------------|---------------------|----|---------|
| 0 4 | FINAL EFFLUENT | # of Samples | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 2 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 2 . 9 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 1 6 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 4 8 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|------------------------------------------------|-----------|----|----|
| 0 7 | DISINFECTION | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

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| | | | | | | |
|----------|-----------------|--------------|-------------|----------------|---------------------|------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 6 | Year 1 6 | Days 3 0 | Discharge Type 2 | Update Code R |
| 1 2 | 3 11 | 16 19 | 20 21 | 22 | 80 | |

| | | | | |
|-------|--------------------|-------------------------------------------|------|-----------------|
| C.P. | 0 1 FLOWS | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10^3 m^3) 5 0 0 1 0 | 3 | 5 1 . 0 1 5 |
| | Average Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 1 5 | 3 | . |
| | Maximum Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 2 0 | 3 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------|-------------------------|----------------------------------|----|----|
| 2 6 BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10^3 m^3) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10^3 m^3) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-----------------------|------------------|------------------|----|---------|
| 0 3 RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 4 7 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 1 8 7 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 3 7 . 0 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 5 . 9 |
| | | 30 34 | 35 | 38 |

| | | | | |
|---------------------------|--------------------|------------------|----|---------|
| 0 4 FINAL EFFLUENT | # of Samples | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 2 . 2 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 2 . 4 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 1 7 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 3 8 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------------|------------------------------------------------|-----------|----|----|
| 0 7 DISINFECTION | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

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| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | | |
|----------|-----------------|--------------------|-------------------|----------------------|---------------------------|------------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 7 16 | Year 1 6 19 | Days 3 1 20 21 | Discharge Type 2 22 | Update Code R 80 |

| | | | | |
|-------------|--------------------|----------------------------------------------|------|-----------------|
| C.P. 0 1 | FLows | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10^3 m^3) 5 0 0 1 0 | 3 | 5 7 . 8 4 7 |
| | Average Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 1 5 | 3 | 1 . 8 6 6 |
| | Maximum Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 2 0 | 3 | 2 . 7 8 1 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------------|-------------------------------------|----|----|
| 2 6 | BYPASS | # of Occurrences | | |
| 12 13 | Plant Bypass Volume | (10^3 m^3) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10^3 m^3) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------|---------------------|----|---------|
| 0 3 | RAW SEWAGE | # of Samples | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 8 8 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 8 2 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 2 8 . 8 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 4 . 2 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-----------------------|---------------------|----|---------|
| 0 4 | FINAL EFFLUENT | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 2 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 2 . 2 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 0 9 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 6 0 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|------------------------------------------------|-----------|----|----|
| 0 7 | DISINFECTION | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

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| | | | | | |
|----------------------|-----------------------------------------------|--------------------------------------|----------------------------------|----------------|----------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code |
| 4 6 1 2 | 1 1 0 0 0 5 7 9 3 11 | 0 8 1 6 16 19 | 3 1 20 21 | 2 22 | R 80 |

| | | |
|-------------|------------|------------------------|
| C.P. | 0 1 | FLows |
| 12 | 13 | Total Flow |
| | | (10^3 m^3) |
| | | 5 0 0 1 0 |
| | | 30 34 |
| | | Dec. |
| | | 3 |
| | | 38 |
| | | 6 6 . 4 7 8 |
| | | 38 |
| | | 2 . 1 4 4 |
| | | 3 . 7 9 2 |
| | | 35 |
| | | Monthly Results |
| | | 38 |

| | | |
|------------|---------------|-------------------------|
| 2 6 | BYPASS | # of Occurrences |
| 12 | 13 | Plant Bypass Volume |
| | | (10^3 m^3) |
| | | 5 0 0 2 6 |
| | | 30 34 |
| | | 38 |
| | | |
| | | 35 |
| | | 1 |
| | | 3 |
| | | 38 |
| | | 3 |
| | | 1 |
| | | 3 |
| | | 38 |
| | | 2 |
| | | 1 |
| | | 38 |
| | | 4 |
| | | 35 |

| | | |
|------------|-------------------|---------------------|
| 0 3 | RAW SEWAGE | # of Samples |
| 12 | 13 | BOD ₅ |
| | | (mg/L) |
| | | 0 0 0 0 1 |
| | | 30 34 |
| | | 38 |
| | | 0 0 0 0 6 |
| | | 35 |
| | | 1 |
| | | 38 |
| | | 1 0 1 . |
| | | 2 |
| | | 38 |
| | | 2 9 . 0 |
| | | 1 |
| | | 38 |
| | | 4 . 4 |
| | | 2 |
| | | 38 |
| | | 0 5 |
| | | 0 |
| | | 35 |
| | | 0 5 |
| | | 0 |
| | | 38 |
| | | 0 5 |
| | | 0 |
| | | 35 |

| | | |
|------------|-----------------------|---------------------|
| 0 4 | FINAL EFFLUENT | # of Samples |
| 12 | 13 | CBOD ₅ |
| | | (mg/L) |
| | | 0 0 0 0 1 |
| | | 30 34 |
| | | 38 |
| | | 1 |
| | | 35 |
| | | 1 |
| | | 38 |
| | | 2 . 0 |
| | | 2 |
| | | 38 |
| | | 3 . 8 |
| | | 2 |
| | | 38 |
| | | 0 . 2 9 |
| | | 2 |
| | | 38 |
| | | . |
| | | 2 |
| | | 38 |
| | | 0 . 5 3 |
| | | 2 |
| | | 38 |
| | | 0 5 |
| | | 0 |
| | | 35 |
| | | 0 5 |
| | | 0 |
| | | 38 |
| | | 0 5 |
| | | 0 |
| | | 35 |

| | | |
|------------|---------------------|------------------------------------------|
| 0 7 | DISINFECTION | # of Samples |
| 12 | 13 | Chlorine Used - (kg as Cl ₂) |
| | | 5 0 1 0 0 |
| | | 30 34 |
| | | 38 |
| | | 1 |
| | | 35 |
| | | 1 |
| | | 38 |
| | | 1 |
| | | 38 |
| | | . |
| | | 1 |
| | | 38 |
| | | . |
| | | 1 |
| | | 38 |
| | | . |
| | | 1 |
| | | 38 |
| | | 0 5 |
| | | 0 |
| | | 35 |
| | | 0 5 |
| | | 0 |
| | | 38 |
| | | 0 5 |
| | | 0 |
| | | 35 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Aug-15

| | | | |
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| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | | |
|----------|-----------------|--------------------|-------------------|----------------------|---------------------------|------------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 0 9 16 | Year 1 6 19 | Days 3 0 20 21 | Discharge Type 2 22 | Update Code R 80 |

| | | | | |
|-------------|--------------------|--------------------------------------------------|------|-----------------|
| C.P. 0 1 | FLows | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10 ³ m ³) 5 0 0 1 0 | 3 | 5 7 . 0 4 5 |
| | Average Daily Flow | (10 ³ m ³ /d) 5 0 0 1 5 | 3 | 1 . 9 0 2 |
| | Maximum Daily Flow | (10 ³ m ³ /d) 5 0 0 2 0 | 3 | 2 . 1 6 1 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------------|------------------------------------------------|----|----|
| 2 6 | BYPASS | # of Occurrences | | |
| 12 13 | Plant Bypass Volume | (10 ³ m ³) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10 ³ m ³) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-------------------|---------------------|----|---------|
| 0 3 | RAW SEWAGE | # of Samples | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 8 2 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 7 8 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 2 4 . 5 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 3 . 6 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|-----------------------|---------------------|----|---------|
| 0 4 | FINAL EFFLUENT | # of Samples | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 2 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 1 . 7 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 0 8 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 4 0 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------|------------------------------------------------|-----------|----|----|
| 0 7 | DISINFECTION | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

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| | | | | | | |
|----------|-----------------|-----------------|----------------|----------------|------------------------|---------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code | |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 16 1 0 | Year 19 1 6 | Days 20 3 1 | Discharge Type 22 2 | Update Code 80 R |

| | | | | |
|-------|--------------------|-------------------------------------------|------|-----------------|
| C.P. | 0 1 FLOWS | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10^3 m^3) 5 0 0 1 0 | 3 | 5 4 . 7 8 5 |
| | Average Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 1 5 | 3 | 1 . 7 6 7 |
| | Maximum Daily Flow | ($10^3 \text{ m}^3/\text{d}$) 5 0 0 2 0 | 3 | 2 . 2 7 0 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------|-------------------------|----------------------------------|----|----|
| 2 6 BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10^3 m^3) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10^3 m^3) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|-----------------------|------------------|------------------|----|---------|
| 0 3 RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 0 4 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 1 0 9 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 2 6 . 4 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 3 . 9 |
| | | 30 34 | 35 | 38 |

| | | | | |
|---------------------------|--------------------|------------------|----|---------|
| 0 4 FINAL EFFLUENT | # of Samples | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 2 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 2 . 5 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 2 0 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 3 9 |
| | | 30 34 | 35 | 38 |

| | | | | |
|-------------------------|------------------------------------------------|-----------|----|----|
| 0 7 DISINFECTION | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

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| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | |
|----------|-----------------|-------------|------------|----------------|-------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 16 | Year 19 | 3 0 | 2 |
| 1 2 | 3 11 | 20 21 | 22 | | 80 |

| | | | | |
|-------|--------------------|-----------------------------------------------|------|-----------------|
| C.P. | 0 1 FLOWS | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10 ³ m ³) 5 0 0 1 0 | 3 | 5 1 . 9 0 5 |
| | Average Daily Flow | (10 ³ m ³ /d) 5 0 0 1 5 | 3 | 1 7 3 0 |
| | Maximum Daily Flow | (10 ³ m ³ /d) 5 0 0 2 0 | 3 | 3 . 0 2 6 |
| | | 30 34 | 35 | 38 |

| | | | | |
|------------|-------------------------|---------------------------------------------|----|----|
| 2 6 BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10 ³ m ³) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10 ³ m ³) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|----------------|------------------|------------------|----|---------|
| 0 3 RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 1 9 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 1 4 1 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 2 9 . 8 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 3 . 8 |
| | | 30 34 | 35 | 38 |

| | | | | |
|--------------------|--------------------|------------------|----|---------|
| 0 4 FINAL EFFLUENT | # of Samples | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 2 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 1 . 6 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 1 6 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 3 6 |
| | | 30 34 | 35 | 38 |

| | | | | |
|------------------|------------------------------------------------|-----------|----|----|
| 0 7 DISINFECTION | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Return completed blue form to:

| | | | |
|------------------|--------------------------------------------------------|----------------------|------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St. Box 1270 Petrolia ON N0N 1R0 | | |

| | | | | | |
|----------|-----------------|-----------------|----------------|----------------|------------------------|
| File No. | Works Number | Data Period | Days | Discharge Type | Update Code |
| 4 6 | 1 1 0 0 0 5 7 9 | Month 16 1 2 | Year 19 1 6 | Days 20 3 1 | Discharge Type 22 2 |
| | | | | | 80 R |

| | | | | |
|-------|--------------------|-----------------------------------------------|------|-----------------|
| C.P. | 0 1 FLOWS | Parameter Code | Dec. | Monthly Results |
| 12 13 | Total Flow | (10 ³ m ³) 5 0 0 1 0 | 3 | 5 3 . 7 8 4 |
| | Average Daily Flow | (10 ³ m ³ /d) 5 0 0 1 5 | 3 | 1 . 7 3 5 |
| | Maximum Daily Flow | (10 ³ m ³ /d) 5 0 0 2 0 | 3 | 3 . 8 6 4 |
| | | 30 34 | 35 | 38 |

| | | | | |
|------------|-------------------------|---------------------------------------------|----|----|
| 2 6 BYPASS | # of Occurrences | | | |
| 12 13 | Plant Bypass Volume | (10 ³ m ³) 5 0 0 2 6 | 3 | . |
| | Duration | (hours) 8 0 5 6 3 | 1 | . |
| | Secondary Bypass Volume | (10 ³ m ³) 5 0 0 4 0 | 3 | . |
| | Duration | (hours) 8 0 5 6 5 | 1 | . |
| | | 30 34 | 35 | 38 |

| | | | | |
|----------------|------------------|------------------|----|---------|
| 0 3 RAW SEWAGE | # of Samples | | | |
| 12 13 | BOD ₅ | (mg/L) 0 0 0 0 1 | 0 | 1 3 1 . |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 0 | 1 2 1 . |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | 3 1 . 9 |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 1 | 3 . 7 |
| | | 30 34 | 35 | 38 |

| | | | | |
|--------------------|--------------------|------------------|----|---------|
| 0 4 FINAL EFFLUENT | # of Samples | | | |
| 12 13 | CBOD ₅ | (mg/L) 0 0 0 0 1 | 1 | 3 . 0 |
| | Suspended Solids | (mg/L) 0 0 0 0 6 | 1 | 1 . 9 |
| | Ammonia + Ammonium | (mg/L) 0 0 0 1 9 | 2 | 0 . 1 5 |
| | TKN | (mg/L) 0 0 0 2 0 | 2 | . |
| | Total Phosphorus | (mg/L) 0 0 0 3 3 | 2 | 0 . 1 9 |
| | | 30 34 | 35 | 38 |

| | | | | |
|------------------|------------------------------------------------|-----------|----|----|
| 0 7 DISINFECTION | | | | |
| 12 13 | Chlorine Used - (kg as Cl ₂) | 5 0 1 0 0 | 1 | . |
| | Chlorine Dosage - (mg/L as Cl ₂) | 8 0 4 1 0 | 1 | . |
| | Chlorine Residual - (mg/L as Cl ₂) | 8 0 4 2 0 | 1 | . |
| | | 30 34 | 35 | 38 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Return completed blue form to:



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com



| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

File No.

| Works Number | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | 0 | 7 | 9 | 3 |

| Data Period | |
|-------------|------|
| Month | Year |
| 0 | 2 |
| 16 | 19 |

| | |
|------|----|
| Days | |
| 2 | 8 |
| 20 | 21 |

Discharge Type

Update Code

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

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|----------|------------------------|---|---|----|----|----|----|----|-------------|------|----|------------|------|----------|----------------|----------|--|-------------|--|
| File No. | Works Number | | | | | | | | Data Period | | | | Days | | Discharge Type | | | Update Code | |
| | 1 1 0 0 0 0 7 9 | | | | | | | | Month | Year | | 3 1 | | 2 | | R | | | |
| | 1 | 2 | 3 | 11 | 16 | 19 | 20 | 21 | | | 22 | | | 80 | | | | | |

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

| | | | | | | | | | | | | | | | | |
|----------|------------------------|---|----|----|----|----|----|-------------|------|--|------------|--|----------------|--|-------------|--|
| File No. | Works Number | | | | | | | Data Period | | | Days | | Discharge Type | | Update Code | |
| | 1 1 0 0 0 0 7 9 | | | | | | | Month | Year | | 3 0 | | 2 | | R | |
| 1 | 2 | 3 | 11 | 16 | 19 | 20 | 21 | 22 | 80 | | | | | | | |

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com

Return completed blue form to:



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

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|----------|------------------------|---|----|----|----|----|----|-------------|------|--|------------|--|----------------|--|-------------|--|
| File No. | Works Number | | | | | | | Data Period | | | Days | | Discharge Type | | Update Code | |
| | 1 1 0 0 0 0 7 9 | | | | | | | Month | Year | | 3 1 | | 2 | | R | |
| 4 6 | 1 2 | 3 | 11 | 16 | 19 | 20 | 21 | 22 | 80 | | | | | | | |

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

| | | | | | | | | | | | | | | | | |
|----------|------------------------|---|----|----|----|----|----|-------------|------|--|------------|--|----------------|--|-------------|--|
| File No. | Works Number | | | | | | | Data Period | | | Days | | Discharge Type | | Update Code | |
| | 1 1 0 0 0 0 7 9 | | | | | | | Month | Year | | 3 0 | | 2 | | R | |
| 1 | 2 | 3 | 11 | 16 | 19 | 20 | 21 | 22 | 80 | | | | | | | |

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com

Return completed blue form to:



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

| | | | | | | | | | | | | | | | | |
|----------|------------------------|---|----|----|----|----|----|-------------|------|--|------------|--|----------------|--|-------------|--|
| File No. | Works Number | | | | | | | Data Period | | | Days | | Discharge Type | | Update Code | |
| | 1 1 0 0 0 0 7 9 | | | | | | | Month | Year | | 3 1 | | 2 | | R | |
| 4 6 | 1 2 | 3 | 11 | 16 | 19 | 20 | 21 | 22 | 80 | | | | | | | |

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com



R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
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| | | | | | | | | | | | | | | | | | | | | |
|----------|--------------|---|---|---|---|---|---|----|---|-------------|------|---|----|------|----|----------------|----|---|-------------|--|
| File No. | Works Number | | | | | | | | | Data Period | | | | Days | | Discharge Type | | | Update Code | |
| | | | | | | | | | | Month | Year | | | | | | | | | |
| 4 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 7 | 9 | 0 | 8 | 1 | 6 | 3 | 1 | 2 | R | 80 | |
| 1 | 2 | 3 | | | | | | 11 | | | 16 | | 19 | | 20 | 21 | 22 | | 80 | |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

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| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

| | | | | | | | | | | | | | | | | | | | | |
|----------|--------------|---|---|---|---|---|---|----|---|-------------|------|---|----|------|----|----------------|----|---|-------------|--|
| File No. | Works Number | | | | | | | | | Data Period | | | | Days | | Discharge Type | | | Update Code | |
| | | | | | | | | | | Month | Year | | | | | | | | | |
| 4 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 7 | 9 | 0 | 9 | 1 | 6 | 3 | 0 | 2 | R | | |
| 1 | 2 | 3 | | | | | | 11 | | | 16 | | 19 | | 20 | 21 | 22 | | 80 | |

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|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------------|---|---|---|---|---|---|----|---|-------------|------|---|---|------|----|----|----------------|---|----|-------------|--|--|
| File No. | Works Number | | | | | | | | | Data Period | | | | Days | | | Discharge Type | | | Update Code | | |
| | | | | | | | | | | Month | Year | | | | | | | | | | | |
| 4 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 7 | 9 | 1 | 0 | 1 | 6 | 3 | 1 | 2 | R | | | | |
| 1 | 2 | 3 | | | | | | 11 | | | 16 | | | 19 | 20 | 21 | 22 | | 80 | | | |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

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|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

| | | | | | | | | | |
|----------------|--------------|----|----|---|------|---|---|---|--|
| File No. | Works Number | | | | | | | | |
| | 1 | 1 | 0 | 0 | 0 | 5 | 7 | 9 | |
| 1 | 2 | 3 | 11 | | | | | | |
| Data Period | | | | | | | | | |
| Month | | | | | Year | | | | |
| 1 | 1 | 1 | 6 | | | | | | |
| 16 | 19 | | | | | | | | |
| Days | | | | | | | | | |
| 3 | 0 | 20 | 21 | | | | | | |
| Discharge Type | | | | | | | | | |
| | 2 | 22 | | | | | | | |
| Update Code | | | | | | | | | |
| | R | 80 | | | | | | | |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

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R2

| | | | |
|------------------|-------------------------------------------------------|----------------------|-------------------------------------------------|
| Municipality: | Corporation of the Town of Petrolia | Operating Authority: | CH2M HILL |
| Project Name: | Petrolia WPCP | | |
| Mailing Address: | 411 Greenfield St Box 1270 Petrolia ON N0N 1R0 | Mailing Address: | 546 Maude St Box 329 Petrolia ON N0N 1R0 |

Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com

Return completed blue form to:



| | |
|------------------------------------------------------------|----------------------------------------------------------|
| Municipality: Town of Petrolia | |
| Project Name: Petrolia Water Pollution Control Plant | Operating Authority: CH2M |
| Address: 411 Greenfield St. Box 1270, Petrolia, ON N0N 1R0 | Address: 546 Maude Street, Box 329, Petrolia, ON N0N 1R0 |

| File No. | Works Number | Data Period Month Year | Discharge Type | Update Code |
|----------|-------------------|------------------------|----------------|-------------|
| 4 6 | 1 1 0 0 0 0 5 7 9 | 0 5 1 6 | 3 1 | 2 |

| | | | | |
|--------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------|-----------------------------------------------------------|---------------------------------|
| C.P. 3 5 FLOWS | (10 ³ m ³) 5 0 0 1 0 | Dec. 3 3 3 | Monthly Results 5 6 8 8 6 1 8 3 5 2 5 1 9 | No. of Occurrences 48 51 |
| 12 13 Total RAW Flow into plant | 30 34 | 35 | 38 | 946 |
| Avg. Day Flow (10 ³ m ³ /d) 5 0 0 1 5 | 30 34 | 35 | 38 | 46 |
| Max. Day Flow (10 ³ m ³ /d) 5 0 0 2 0 | 30 34 | 35 | 38 | 46 |
| 3 5 BYPASS | (10 ³ m ³) 5 0 2 7 0 | 3 | | No. of Samples 4 4 4 4 |
| 12 13 Plant Bypass Vol. | 30 34 | 35 | 38 | 48 51 |
| Duration (Hrs.) 8 1 6 8 0 | 30 34 | 35 | 38 | 46 |
| 3 6 RAW SEWAGE | (mg/L) 0 0 0 0 1 | 0 | Monthly Average Results 1 2 1 1 2 6 4 3 1 5 1 | No. of Samples 4 4 4 4 |
| 12 13 BOD | 30 34 | 35 | 38 | 46 |
| SS (mg/L) 0 0 0 0 6 | 30 34 | 35 | 38 | 46 |
| TKN (mg/L) 0 0 0 2 0 | 30 34 | 35 | 38 | 46 |
| Total P. (mg/L) 0 0 0 3 3 | 30 34 | 35 | 38 | 46 |
| 3 9 FINAL EFFLUENT | East Lagoon (10 ³ m ³) 5 0 2 8 0 | 3 | | Seasonal Discharge Lagoons Only |
| 2 13 Total Effl. Volume To Watercourse | 30 34 | 35 | 38 | 46 |
| Flow Duration (Hrs.) 8 1 6 8 0 | 30 34 | 35 | 38 | 46 |
| Cell Depth (m) 5 0 2 9 0 | 30 34 | 35 | 38 | 46 |
| CBOD5 (mg/L) 0 0 0 0 1 | 30 34 | 35 | 38 | 46 |
| SS (mg/L) 0 0 0 0 6 | 30 34 | 35 | 38 | 46 |
| Ammonia (mg/L) 0 0 0 1 9 | 30 34 | 35 | 38 | 46 |
| TKN (mg/L) 0 0 0 2 0 | 30 34 | 35 | 38 | 46 |
| Total P. (mg/L) 0 0 0 3 3 | 30 34 | 35 | 38 | 46 |
| 0 9 DISINFECTION | Chlorine Used (kg as Cl ₂) 5 0 3 2 0 | 1 | | 5 5 5 5 |
| 12 13 Chlorine Dosage (mg/L as Cl ₂) 8 0 4 1 0 | 30 34 | 35 | 38 | 46 |
| Chlorine Resid. (mg/L as Cl ₂) 8 0 4 2 0 | 30 34 | 35 | 38 | 46 |

Operator's Comments and Contact Person's Phone number:

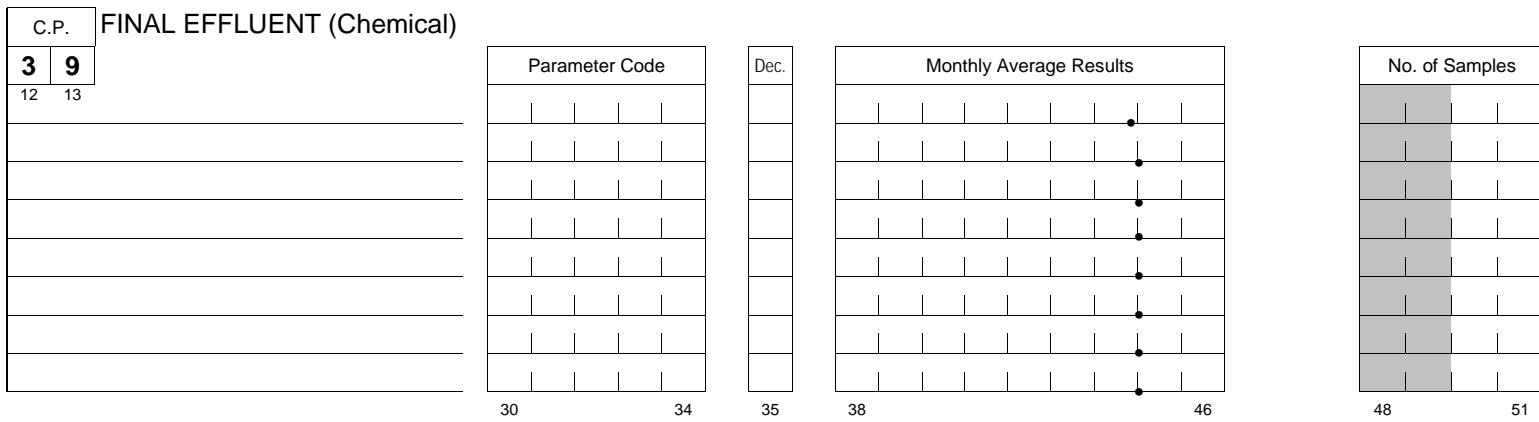
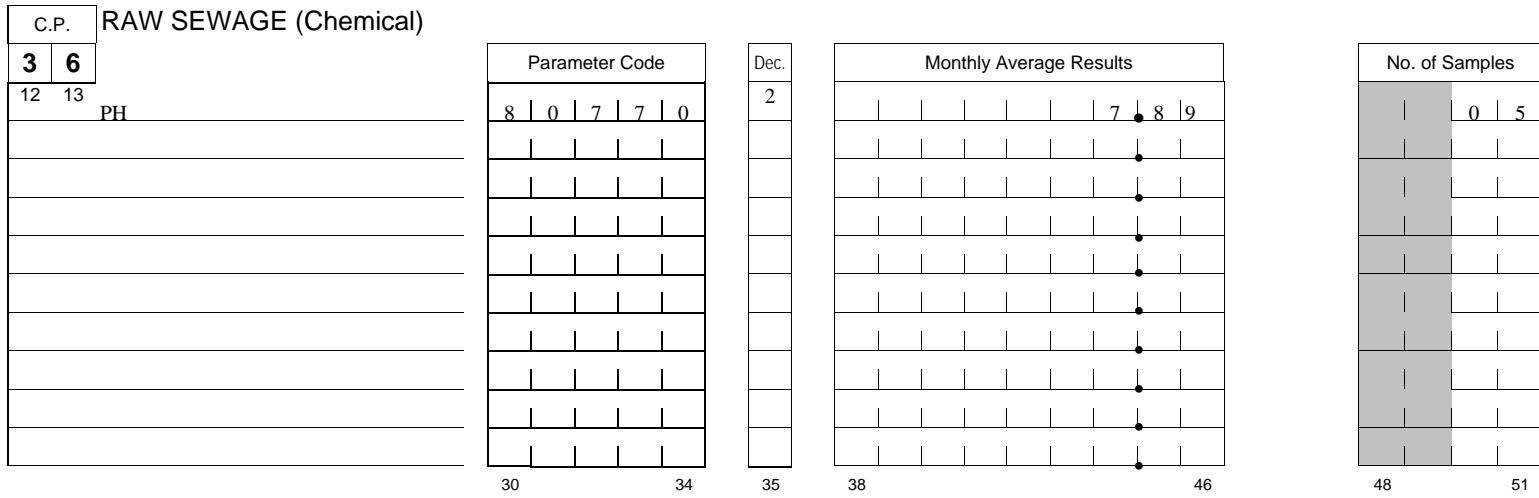
Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com

Return completed blue form to:

| | |
|------------------------------------------------------------|----------------------------------------------------------|
| Municipality: Town of Petrolia | |
| Project Name: Petrolia Water Pollution Control Plant | Operating Authority: CH2M |
| Address: 411 Greenfield St, Box 1270, Petrolia, ON N0N 1R0 | Address: 546 Maude Street, Box 329, Petrolia, ON N0N 1R0 |

| | | | | | | |
|-------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------|-------------------------------|--|-------------------------------|
| File No. 4 6 1 2 | Works Number 1 1 0 0 0 5 7 9 3 11 | Data Period Month Year 0 5 1 6 16 19 | Discharge Type 3 1 20 21 | Update Code 2 22 | | Update Code R 80 |
|-------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------|-------------------------------|--|-------------------------------|

ADDITIONAL DATA This pH monthly average is for Petrolia WWTP East Lagoon



| | |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Operator's Comments and <u>Contact Person's Phone number:</u> Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com | Return completed yellow form to: |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|



| | |
|------------------------------------------------------------|----------------------------------------------------------|
| Municipality: Town of Petrolia | |
| Project Name: Petrolia Water Pollution Control Plant | Operating Authority: CH2M |
| Address: 411 Greenfield St. Box 1270, Petrolia, ON N0N 1R0 | Address: 546 Maude Street, Box 329, Petrolia, ON N0N 1R0 |

| File No. | Works Number | Data Period Month Year | Discharge Type | Update Code |
|----------|-------------------|------------------------|----------------|-------------|
| 4 6 | 1 1 0 0 0 0 5 7 9 | 0 5 1 6 | 3 1 | 2 |

| | | | | |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|------------------------------|-----------------------------|
| C.P. 3 5 FLOWS | Total RAW Flow into plant (10 ³ m ³) 5 0 0 1 0 | Parameter Code Dec. 3 | Monthly Results 5 6 8 8 6 | No. of Occurrences 48 51 |
| 12 13 Avg. Day Flow (10 ³ m ³ /d) 5 0 0 1 5 | 30 34 | 35 | 38 | 46 |
| Max. Day Flow (10 ³ m ³ /d) 5 0 0 2 0 | 30 34 | 35 | 38 | 46 |

| | | | | |
|-------------------|----------------------------------------------------------------------------|----------------------------------------|----------------------------------|---------------------------|
| 3 5 BYPASS | Plant Bypass Vol. (10 ³ m ³) 5 0 2 7 0 | Duration (Hrs.) 8 1 6 8 0 | Monthly Average Results 1 2 1 | No. of Samples 4 4 4 4 |
| 12 13 | 30 34 | 35 | 38 | 46 |

| | | | | |
|----------------------------------------|-----------------------------------|----------------------------------|----------------------------------|---------------------------|
| 3 6 RAW SEWAGE | BOD (mg/L) 0 0 0 0 1 | SS (mg/L) 0 0 0 0 6 | Monthly Average Results 1 2 1 | No. of Samples 4 4 4 4 |
| 12 13 | 30 34 | 35 | 38 | 46 |
| TKN (mg/L) 0 0 0 2 0 | | | | |
| Total P. (mg/L) 0 0 0 3 3 | | | | |

| | | | | |
|-------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------|----------------------------------|---------------------------|
| 3 9 FINAL EFFLUENT | Flow Duration (Hrs.) 8 1 6 8 0 | Cell Depth (m) 5 0 2 9 0 | Monthly Average Results 1 2 1 | No. of Samples 5 5 5 5 |
| 2 13 Total Effl. Volume To Watercourse (10 ³ m ³) 5 0 2 8 0 | 30 34 | 35 | 38 | 46 |
| CBOD5 (mg/L) 0 0 0 0 1 | | | | |
| SS (mg/L) 0 0 0 0 6 | | | | |
| Ammonia (mg/L) 0 0 0 1 9 | | | | |
| TKN (mg/L) 0 0 0 2 0 | | | | |
| Total P. (mg/L) 0 0 0 3 3 | | | | |

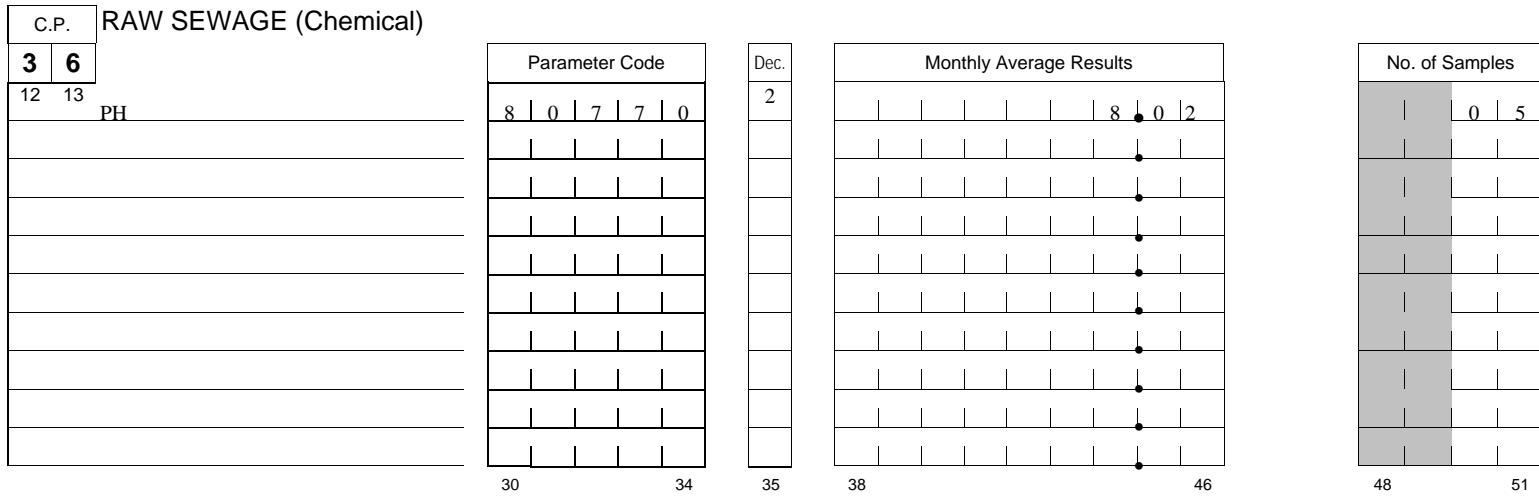
| | | | | | |
|-------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------------------|
| 0 9 DISINFECTION | Chlorine Used (kg as Cl ₂) 5 0 3 2 0 | Chlorine Dosage (mg/L as Cl ₂) 8 0 4 1 0 | Chlorine Resid. (mg/L as Cl ₂) 8 0 4 2 0 | Monthly Average Results 4 0 | No. of Samples 5 5 5 5 |
| 12 13 | 30 34 | 35 | 38 | 46 | 48 51 |

| | |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Operator's Comments and <u>Contact Person's Phone number:</u> Randy Clendenning 519-490-5592 Randy.Clendenning@ch2m.com | Return completed blue form to: |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|

| | |
|------------------------------------------------------------|----------------------------------------------------------|
| Municipality: Town of Petrolia | |
| Project Name: Petrolia Water Pollution Control Plant | Operating Authority: CH2M |
| Address: 411 Greenfield St, Box 1270, Petrolia, ON N0N 1R0 | Address: 546 Maude Street, Box 329, Petrolia, ON N0N 1R0 |

| | | | | |
|------------------------|----------------------------------------|------------------------------------------|--------------------------------|-------------------------|
| File No. 4 6 | Works Number 1 1 0 0 0 5 7 9 | Data Period Month Year 0 5 1 6 | Discharge Type 3 1 2 | Update Code R |
| 1 2 | 3 11 | 16 19 | 20 21 | 22 80 |

ADDITIONAL DATA This pH monthly average is for Petrolia WWTP West Lagoon



Operator's Comments and Contact Person's Phone number:

Randy Clendenning 519-490-5592
Randy.Clendenning@ch2m.com

Return completed yellow form to:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: CH2MHILL OMI

Date: December 13, 2016

Equipment Description: Flow Meter

Assigned Number: _____

Area Located: Petrolia WPCP

Drawing Number: _____

Instrument Data

Manufacturer: Siemens/Milltronics

Model Number: OCM III

Type: Ultrasonic Measurement

Flume/Weir Type: 36" Non Contracted
Suppression Weir

Range: 0 - 53.5185 l/s

Accuracy: +/- 1%

Method Of Calibration: Standard Measurement

Application: Wastewater

Calibration Data

| Input % | Input | As Found | Theoretical | Pass/Fail |
|---------|-------|--------------|-------------|-----------|
| 0.0 | 0 " | 0.00 l/s | 0.00 l/s | Pass |
| 25 | 1" | 6.689812 l/s | 6.77 l/s | Pass |
| 50 | 2" | 18.92164 l/s | 19.15 l/s | Pass |
| 75 | 3" | 34.76128 l/s | 35.18 l/s | Pass |
| 100 | 4" | 53.5185 l/s | 54.16 l/s | Pass |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode: ✓



Placed back in service: ✓

Comments:

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

Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: CH2MHILL OMI

Date: December 13, 2016

Equipment Description: Flow Meter

Assigned Number: _____

Area Located: Petrolia WPCP

Drawing Number: _____

Instrument Data

Manufacturer: Pulsar

Model Number: Ultra 3

Type: Ultrasonic Measurement

Flume/Weir Type: 60° V notch weir

Range: 0 - 222.2 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Wastewater

Calibration Data

| Input % | Input | As Found | Theoretical | Pass/Fail |
|---------|-------|------------|-------------|-----------|
| 0.0 | 0 cm | 0.00 l/s | 0.00 l/s | Pass |
| 25 | 15 cm | 6.99 l/s | 6.94 l/s | Pass |
| 50 | 30 cm | 39.33 l/s | 39.27 l/s | Pass |
| 75 | 45 cm | 108.25 l/s | 108.22 l/s | Pass |
| 100 | 60 cm | 222.2 l/s | 222.16 l/s | Pass |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode: ✓



Placed back in service: ✓

Comments:

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

Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: CH2MHILL OMI

Date: December 13, 2016

Equipment Description: Flow Meter

Assigned Number: _____

Area Located: Petrolia WPCP

Drawing Number: _____

Instrument Data

Manufacturer: Siemens/Milltronics

Model Number: OCM III

Type: Ultrasonic Measurement

Flume/Weir Type: 9" Parshall Flume

Range: 0 - 245 l/s

Accuracy: +/- 1%

Method Of Calibration: Standard Measurement

Application: Wastewater

Calibration Data

| Input % | Input | As Found | Theoretical | Pass/Fail |
|---------|-------|--------------|-------------|-----------|
| 0.0 | 0 cm | 0.00 l/s | 0.00 l/s | Pass |
| 16 | 10 cm | 15.7977 l/s | 15.80 l/s | Pass |
| 33 | 20 cm | 45.6216 l/s | 45.63 l/s | Pass |
| 50 | 30.cm | 84.8379 l/s | 84.85 l/s | Pass |
| 66 | 40 cm | 131.7487 l/s | 131.80 l/s | Pass |
| 83 | 50 cm | 185.3611 l/s | 185.40 l/s | Pass |
| 100 | 60 cm | 245.00 l/s | 245.00 l/s | Pass |

Confirmed Run Mode: ✓



Placed back in service: ✓

Comments:

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

Checked By: Greg Pierce CCST

Signature: _____



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: CH2MHILL OMI

Date: December 13, 2016

Equipment Description: RAS Flow Meter

Assigned Number: _____

Area Located: Petrolia WPCP

Drawing Number: _____

Instrument Data

Manufacturer: Grayline

Model Number: DFM-IV-A1A1A1B1A

Type: Doppler

Serial Number: 15938

Range: 0 - 55.0 l/s

Accuracy: +/- 1%

Method Of Calibration: Standard Measurment

Application: Wastewater

Calibration Data

| Input % | Input | As Found | As Left | Pass/Fail |
|---------|----------|-----------|-----------|-----------|
| 0.0 | 4.00 mA | 0 l/s | 0 l/s | Pass |
| 25 | 8.00 mA | 13.50 l/s | 13.50 l/s | Pass |
| 50 | 12.00 mA | 27.50 l/s | 27.50 l/s | Pass |
| 75 | 16.00 mA | 41.00 l/s | 41.00 l/s | Pass |
| 100 | 20.00 mA | 55.00 l/s | 55.00 l/s | Pass |
| | 20.00 mA | 55.0 l/s | 55.0 l/s | |

Confirmed Run Mode: ✓



Placed back in service: ✓

Comments:

Checked By: Greg Pierce CCST

Signature:



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| | 20.00 mA | 55.0 l/s | 55.0 l/s | |

Confirmed Run Mode: ✓



Placed back in service: ✓

Comments:

Checked By: Greg Pierce CCST

Signature: