

**Municipality Of Huron East
 2013 Operations Report
 Vanastra Wastewater Facilities
 Reporting Period Jan-Dec 2013**

1. Introduction

The inlet works consists of a manually raked bar screen, channel grinder, bypass piping, including overflow weir installed in the inlet structure, consisting of 375 mm diameter overflow pipe to the Flow Equalization Storage Tanks; and a bypass flow monitoring station. From the bar screen, the flow is directed to the primary clarifier, from which it is pumped by raw sewage pumps to the four aeration tank cells. Following aeration, settling takes place in the two final clarifiers. Effluent from the settling tanks is disinfected using sodium hypochlorite prior to discharge into Grant Creek. Sludge from the clarifiers is either returned to the aeration tanks or to the primary clarifier. All primary sludge is periodically wasted to the sludge holding tank. Scum from the primary clarifier is discharged to a scum pit; contents of the sludge pit are pumped to digester. Flows exceeding approximately 1600m³/day are diverted to the flow equalization storage tank downstream of the mechanical bar screens, The storm equalization tank is rectangular, with wash troughs for flushing of settled materials, which are gravity fed via Rotork control valve and are discharged with collected storm water into the main process flow. During high flow events, excess flow is diverted to a equalization storage tank. If the EQ tank is full, flow is then bypassed to Grant Creek. During short duration storm events, flow is stored and then drained back to the head of the plant during low flow periods. Alum is continuously injected into flow split chamber for the aeration tanks.

The sewage works, are owned by the Corporation of the Municipality of Huron East and operated by CH2MHill. The waste water collection System is both owned and operated by the municipality of Huron East.

2. Regulatory Issues

CH2MHILL has made every effort during the reporting period to operate this wastewater system in accordance with applicable laws, certificates and regulations. To the best of our knowledge, the following report truthfully and accurately reflects any and all matters of non-compliance regarding the ownership and operation of the wastewater treatment plant during the reporting period.

During this period, the plant was operated in full compliance with applicable laws, regulations and the WWTP'S Certificate of Approval, save and except the following:

None during this period

Or

| Requirement | Duration of Failure | Measures to Correct the Failure |
|-------------|---------------------|---|
| E-coli | Nov | Increased chlorine from .2 to .35 in final effluent |
| | | Reseeded plant |

3. Compliance with Quality/Quantity Criteria

Vanastra WWTP

| Month | Average Volume/Day m ³ /d | Plant Utilization (based on Avg. Day) | Max Volume/Day m ³ /d |
|--------------|---|--|-------------------------------------|
| Jan | 700 | 49% | 1877 |
| Feb | 829 | 59% | 1497 |
| Mar | 809 | 57% | 1734 |
| April | 1135 | 80% | 2071 |
| May | 760 | 54% | 3974 |
| June | 623 | 44% | 1193 |
| July | 524 | 37% | 1141 |
| Aug | 623 | 44% | 2044 |
| Sept | 565 | 40% | 1987 |
| Oct | 1232 | 87% | 2693 |
| Nov | 1340 | 95% | 2818 |
| Dec | 798 | 56% | 1735 |

Plant Average Day Design Capacity is 1405 m³/d

4. Quality Assurance/Quality Control

- Maxxam Analytics Inc. conducts the required physical, chemical and biological testing of influent and effluent from each WWTP.

5. Maintenance Summary

Vanastra WPCP

- Townsend Plumbing removed old water heater/re-installed new 20 gal. heater
- Install new sump pump
- Selectra replaced soft start on sludge pump
- Replace belts and align pulley #2 blower
- Install new battery in Auto Dialer
- Rebuild alum pump(new tubes)
- Replace 12 volt battery in emergency light system
- Re-install wash down booster pump
- Transfer 3500 gal. seed sludge from Brussels
- Empty south clarifier, clean out pickups and refill

General

- Maintained aeration blowers, return pumps and sewage pumps
- Yearly Inspected and ran all diesel generators monthly
- Maintained all chemical pumps and injection systems.

6. Environmental/Operating Problems

- High Flows caused higher than normal e-coil washed out solids reseeded plant.

7. Proposed Alterations, Extensions or Replacements

- None during this period

8. Calibration Procedures

- Flow meters were calibrated in 2013

9. Health & Safety Items

- Lifting equipment, Fire extinguishers, Gas monitors Monthly/Yearly inspections. Weekly Safety meeting along with Quarterly walk through completed for 2013

10. Status of Capital Projects

- None during this period.

11. Other Items

- None

2013

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

MONTH: Jan

YEAR 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 2-Jan | 4383 | 4399 | 320 | 320 | 24.0 | 2.6 | 4.0 | 21.0 | 0.40 | 0.15 | 36 | 7.50 | 7.9 |
| 2 7-Jan | 4280 | 4433 | | | | | | | 0.24 | | 24 | 7.43 | 8.62 |
| 3 14-Jan | 3136 | 3147 | | | | | | | 0.10 | | 31 | 7.45 | 10.7 |
| 4 21-Jan | 3963 | 3794 | | | | | | | 0.12 | | 28 | 7.51 | 11.3 |
| 5 28-Jan | 4042 | 3989 | | | | | | | 0.48 | | 16 | 7 | 8.99 |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 5 | 5 | 5 |
| Monthly Average | | | 320 | 320 | 24.0 | 2.6 | 4.0 | 21.0 | 0.27 | 0.15 | 26 | 7.46 | 9.50 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Feb

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

YEAR 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|-------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 4-Feb | 3820 | 3589 | 31 | 45 | 15.0 | 1.4 | 2.0 | 26.0 | 0.52 | 0.05 | 100 | 7.52 | 9.5 |
| 2 11-Feb | 3772 | 3943 | | | | | | | 0.32 | | 32 | 7.41 | 8.82 |
| 3 19-Feb | 3309 | 3206 | | | | | | | 0.59 | | 340 | 7.37 | 9.6 |
| 4 25-Feb | 3641 | 3556 | | | | | | | 0.42 | | 36 | 7.43 | 12.53 |
| 5 / | | | | | | | | | | | | | |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 4 | 4 |
| Monthly Average | | | 31 | 45 | 15.0 | 1.4 | 2.0 | 26.0 | 0.46 | 0.05 | 79 | 7.43 | 10.10 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: March

Vanastra STP
 Operating Number 110003013
 Operating Authority: O.M.I. Canada Inc.
 Municipality of Huron East

YEAR 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|-------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 4-Mar | 3624 | 3743 | 43 | 43 | 17.0 | 1.70 | 2.0 | 10.0 | 0.25 | 0.05 | 610 | 7.54 | 13.1 |
| 2 11-Mar | 2993 | 2948 | | | | | | | 1.50 | | 320 | 7.47 | 12.93 |
| 3 18-Mar | 3567 | 3529 | | | | | | | 0.51 | | 48 | 7.64 | 14.08 |
| 4 25-Mar | 3539 | 3480 | | | | | | | 0.19 | | 1 | 7.97 | 9.2 |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| Number of Tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 4 | 4 |
| Monthly Average | | | 43 | 43 | 17.0 | 1.7 | 2.0 | 10.0 | 0.61 | 0.05 | 55 | 7.66 | 12.34 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: April

Vanastra STP
 Operating Number 110003013
 Operating Authority: O.M.I. Canada Inc.
 Municipality of Huron East

Year 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 2-Apr | 3522 | 3690 | 50 | 90 | 20.0 | 2.0 | 3.0 | 17.0 | 0.28 | 0.07 | 96 | 7.65 | 8.3 |
| 2 8-Apr | 3667 | 3489 | | | | | | | 0.23 | | 170 | 7.60 | 7.9 |
| 3 15-Apr | 3475 | 3534 | | | | | | | 0.23 | | 78 | 7.59 | 7.91 |
| 4 22-Apr | 3417 | 3213 | | | | | | | 0.12 | | 40 | 7.40 | 10.1 |
| 5 29-Apr | 3283 | 3562 | | | | | | | 0.15 | | 19 | 7.50 | 6.32 |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 5 | 5 | 5 |
| Monthly Average | | | 50 | 90 | 20.0 | 2.0 | 3.0 | 17.0 | 0.20 | 0.07 | 63 | 7.55 | 8.11 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: May

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

Year 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 6-May | 3506 | 3460 | 34 | 40 | 31.0 | 2.4 | 2.0 | 5.0 | 0.12 | 0.24 | 68 | 7.62 | 8.7 |
| 2 13-May | 3212 | 3039 | | | | | | | 0.09 | | 27 | 7.58 | 7.7 |
| 3 21-May | 4239 | 4270 | | | | | | | 0.30 | | 53 | 7.50 | 6.3 |
| 4 27-May | 3895 | 3817 | | | | | | | 0.08 | | 13 | 7.56 | 8.3 |
| 5 | | | | | | | | | | | | | |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 41 | | 4 | 4 | 4 |
| Monthly Average | | | 34 | 40 | 31.0 | 2.4 | 2.0 | 5.0 | 0.15 | 0.24 | 34 | 7.57 | 7.75 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Jun

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

YEAR 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 3-Jun | 4000 | 4111 | 130 | 99 | 32.0 | 3.9 | 2.0 | 7.0 | 0.08 | 0.05 | 13 | 7.64 | 7.8 |
| 2 10-Jun | 4071 | 3974 | | | | | | | 0.08 | | 65 | 7.41 | 6.6 |
| 3 17-Jun | 4353 | 4227 | | | | | | | 0.29 | | 35 | 7.43 | 6.78 |
| 4 24-Jun | 3991 | 4133 | | | | | | | 0.08 | | 720 | 7.59 | 6.5 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 4 | 4 |
| Monthly Average | | | 130 | 99 | 32.0 | 3.9 | 2.0 | 7.0 | 0.13 | 0.05 | 68 | 7.52 | 6.92 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Jul

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

YEAR 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 2-Jul | 4326 | 4390 | 91 | 94 | 32.0 | 3.8 | 3.0 | 4.0 | 0.15 | 0.07 | 56 | 7.54 | 6.9 |
| 2 8-Jul | 4125 | 3929 | | | | | | | 0.14 | | 7 | 7.44 | 6.1 |
| 3 11-Jul | | | | | | | | | | | 640 | | |
| 4 15-Jul | 4525 | 4319 | | | | | | | 0.11 | | 12 | 7.46 | 5.68 |
| 5 22-Jul | 2148 | 2369 | | | | | | | 0.35 | | 1000 | 8 | 7.43 |
| 6 29-Jul | 4144 | 3997 | | | | | | | 0.15 | | 46 | 8 | 8.75 |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 6 | 5 | 5 |
| Monthly Average | | | 91 | 94 | 32.0 | 3.8 | 3.0 | 4.0 | 0.19 | 0.07 | 79 | 7.54 | 6.53 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Aug

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

Year 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 6-Aug | 3509 | 3422 | 40 | 37 | 13.0 | 1.1 | 2.0 | 1.0 | 0.02 | 0.05 | 17 | 7.59 | 7.9 |
| 2 12-Aug | 3697 | 3357 | | | | | | | 0.13 | | 2 | 7.72 | 7.9 |
| 3 19-Aug | 1184 | 1075 | | | | | | | 0.16 | | 920 | 7.78 | 8.39 |
| 4 26-Aug | 3507 | 3468 | | | | | | | 0.12 | | 3600 | 7.55 | 6.26 |
| 5 | | | | | | | | | | | | | |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 4 | 4 |
| Monthly Average | | | 40 | 37 | 13.0 | 1.1 | 2.0 | 1.0 | 0.11 | 0.05 | 103 | 7.66 | 7.62 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Sep

Vanastra STP
 Operating Number 110003013
 Operating Authority: O.M.I. Canada Inc.
 Municipality of Huron East

Year 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|-----------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 3-Sep | 3734 | 3505 | 150 | 120 | 32.0 | 3.4 | 2.0 | 2.0 | 0.14 | 0.05 | 29 | 8.63 | 7.58 |
| 2 9-Sep | 3133 | 3030 | | | | | | | 0.13 | | 7 | 7.63 | 8.41 |
| 3 16-Sep | 3567 | 3395 | | | | | | | 0.17 | | 31 | 7.64 | 8.82 |
| 4 23-Sep | 3339 | 3281 | | | | | | | 0.19 | | 21 | 7.65 | 8.38 |
| 5 30-Sep | 3290 | 3029 | | | | | | | 0.17 | | 25 | 7.79 | 8.95 |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 5 | 5 | 5 |
| Monthly Average | | | 150 | 120 | 32.0 | 3.4 | 2.0 | 2.0 | 0.16 | 0.05 | 20 | 7.87 | 8.43 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Oct

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

YEAR 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 7-Oct | 21080 | 2172 | 10 | 18 | 4.6 | 0.5 | 2.0 | 6.0 | 0.27 | 0.05 | 90 | 7.46 | 7.91 |
| 2 15-Oct | 3506 | 3045 | | | | | | | 0.19 | | 29 | 7.57 | 7.23 |
| 3 21-Oct | 2194 | 2308 | | | | | | | 0.16 | | 9 | 7.59 | 8.73 |
| 4 28-Oct | 2510 | 2409 | | | | | | | 0.27 | | 19 | 7.79 | 7.51 |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| Number of tests | | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 4 | 4 |
| Monthly Average | | | 10 | 18 | 4.6 | 0.5 | 2.0 | 6.0 | 0.22 | 0.05 | 26 | 7.60 | 7.85 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Nov

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

Year 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|-----------------------|---------------------|---------------------|--------------|------------|----------|--------------|----------------|------------|--------------|------------------|------------------|------|-------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 4-Nov | 86 | 78 | 24 | 20 | 14.0 | 1.2 | 2.0 | 1.0 | 0.02 | 0.05 | 55000 | 7.88 | 10.7 |
| 2 12-Nov | 640 | 576 | | | | | | | 0.19 | | 17000 | 7.72 | 10.0 |
| 3 18-Nov | 488 | 461 | 14 | 25 | 5.7 | 0.6 | 3.0 | 17.0 | 0.15 | 0.19 | 3200 | 7.61 | 9.0 |
| 4 25-Nov | 980 | 1017 | | | | | | | 0.09 | | 540 | 7.65 | 11.05 |
| 5 | | | | | | | | | | | | | |
| 6 / | | | | | | | | | | | | | |
| Number of tests | | | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 4 | 4 |
| Monthly Average | | | 19 | 23 | 9.9 | 0.9 | 2.5 | 9.0 | 0.11 | 0.12 | 6340 | 7.72 | 10.19 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

MONTH: Dec

Vanastra STP
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

Year 2013

ANALYST Maxxam

| Test # Date | MLSS | | RAW INFLUENT | | | | FINAL EFFLUENT | | | | | | |
|------------------------------|---------------------------|---------------------------|--------------|---------------|-------------|-----------------|----------------|---------------|-----------------|------------------------|------------------------|------|-------|
| | North Aeration S.S. | South Aeration S.S. | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | BOD5 mg/L | S. S. mg/L | Total P mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH | D.O. |
| 1 2-Dec | 904 | 872 | 19 | 28 | 12.0 | 0.9 | 2.0 | 14.0 | 0.12 | 0.05 | 76 | 7.62 | 10.1 |
| 2 9-Dec | 1193 | 1171 | 55 | 160 | 20.0 | 1.8 | 2.0 | 6.0 | 0.12 | 0.05 | 12 | 7.59 | 10.49 |
| 3 16-Dec | 1599 | 1225 | | | | | | | 0.02 | | 32 | 7.54 | 10.2 |
| 4 23-Dec | 363 | 361 | | | | | | | 0.15 | | 33000 | 7.63 | 10.9 |
| 5 30-Dec | 1546 | 1437 | | | | | | | 0.16 | | 68 | 7.60 | 10.6 |
| 6 | | | | | | | | | | | | | |
| Number of tests | | | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 5 | 5 | 5 |
| Monthly Average | | | 37 | 94 | 16.0 | 1.4 | 2.0 | 10.0 | 0.11 | 0.05 | 146 | 7.60 | 10.46 |
| Monthly Objectives | | | | | | | 15.0 | 15.0 | 1.0 | | 0 | | |
| Monthly/Yearly Limits | | | | | | | 25.0 | 25.0 | 1.0 | | 200 | | |

Comments: pH of the effluent maintained between 6.0 to 8.5, inclusive, at all times

2013

BYPASS EVENTS Bypass Events

Vanastra S.T.P.
 Operating Number 110003013
 Operating Authority: CH2MHILL
 Municipality of Huron East

YEAR 2013

ANALYST Maxxam

| Date | | Time/Volume of Event | | | Notification | | Sampled | | Results of Analyst | | | | | | |
|-------------|-------|----------------------|--------------|-----------|--------------|----|---------|----|--------------------|------------|--------------|-----------------------|------------------|------------------|------|
| Day Month | Start | Finish | Duration Hrs | Volume M3 | Yes | No | Yes | No | BOD5 mg/L | S. S. mg/L | Total P mg/L | Alkalinity CaCO3 mg/L | Ammonia NH3 mg/L | E-Coli Per 100ml | pH |
| 1 1-Aug | 12:25 | 3:45 | 3.30 | 70 | x | | x | | 2.0 | 9.0 | 0.31 | 210 | 0.07 | 100 | 7.97 |
| 2 26-Oct | 22:30 | 16:30 | 18.00 | 403 | x | | x | | 2.0 | 22.0 | 0.30 | 300 | 0.20 | 4900 | 8.24 |
| 3 31-Oct | 17:50 | 15:10 | 24.10 | 1108 | x | | x | | 2.0 | 17.0 | 0.34 | 260 | 0.05 | 21 | 8.07 |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Comments:

CH2MHILL CI2 Total Residuals Vanastra STP 2013

| Date | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|--------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | | 0.27 | 0.45 | | 0.22 | | | 0.33 | | 0.32 | 0.23 | 0.20 |
| 2 | | | | 0.30 | 0.17 | | 0.39 | 0.37 | | 0.29 | | 0.21 |
| 3 | 0.24 | | | 0.25 | 0.39 | 0.32 | 0.25 | | 0.30 | 0.24 | | 0.23 |
| 4 | 0.18 | 0.16 | 0.27 | 0.32 | | 0.36 | 0.29 | | 0.28 | 0.28 | 0.21 | 0.41 |
| 5 | 0.47 | 0.30 | 0.35 | 0.24 | | 0.19 | 0.35 | | 0.32 | | 0.35 | 0.31 |
| 6 | | 0.33 | 0.36 | | 0.14 | 0.34 | | 0.35 | 0.26 | | 0.35 | 0.44 |
| 7 | | 0.33 | 0.35 | | 0.37 | 0.32 | | 0.36 | | 0.31 | 0.32 | |
| 8 | 0.39 | 0.28 | 0.27 | 0.28 | 0.39 | | 0.38 | 0.32 | | 0.30 | 0.35 | |
| 9 | 0.22 | | | 0.28 | 0.41 | | 0.25 | 0.36 | 0.31 | 0.16 | | 0.42 |
| 10 | 0.45 | | | 0.31 | 0.35 | 0.24 | 0.28 | | 0.27 | 0.36 | | 0.23 |
| 11 | 0.31 | 0.27 | 0.42 | 0.35 | | 0.27 | 0.37 | | 0.35 | 0.17 | 0.33 | 0.59 |
| 12 | 0.38 | 0.30 | 0.57 | 0.26 | | 0.33 | 0.39 | 0.35 | 0.35 | | 0.31 | 0.55 |
| 13 | | 0.29 | 0.45 | | 0.38 | 0.36 | | 0.28 | 0.22 | | 0.25 | 0.22 |
| 14 | | 0.25 | 0.38 | | 0.32 | 0.36 | | 0.30 | | | 0.36 | |
| 15 | 0.56 | | 0.26 | 0.33 | 0.32 | | 0.34 | 0.35 | | 0.32 | 0.20 | |
| 16 | 0.42 | | | 0.31 | 0.17 | | 0.16 | 0.24 | 0.31 | 0.20 | | 0.47 |
| 17 | 0.26 | | | 0.34 | 0.39 | 0.27 | 0.16 | | 0.19 | 0.23 | | 0.51 |
| 18 | 0.26 | | 0.24 | 0.31 | | 0.28 | 0.37 | | 0.35 | 0.30 | 0.23 | 0.55 |
| 19 | | 0.21 | 0.38 | 0.33 | | 0.28 | 0.19 | 0.35 | 0.33 | | 0.18 | 0.55 |
| 20 | | 0.26 | 0.36 | | | 0.15 | | 0.35 | 0.23 | | 0.28 | 0.36 |
| 21 | 0.17 | 0.19 | 0.29 | | 0.19 | 0.35 | | 0.29 | | 0.29 | 0.42 | |
| 22 | 0.32 | 0.42 | 0.28 | 0.29 | 0.29 | | 0.37 | 0.31 | | 0.33 | 0.19 | |
| 23 | 0.34 | | | 0.28 | 0.36 | | 0.35 | 0.19 | 0.35 | 0.31 | | |
| 24 | 0.21 | | | 0.37 | 0.34 | 0.23 | 0.24 | | 0.36 | 0.38 | | 0.44 |
| 25 | 0.24 | 0.30 | 0.34 | 0.28 | | 0.29 | 0.32 | | 0.19 | 0.32 | 0.17 | 0.32 |
| 26 | | 0.17 | 0.39 | 0.26 | | 0.31 | 0.21 | 0.22 | 0.30 | 0.48 | 0.18 | |
| 27 | | 0.37 | 0.36 | | 0.32 | 0.23 | | 0.20 | 0.32 | 0.40 | 0.11 | 0.45 |
| 28 | 0.3 | 0.40 | 0.4 | | 0.3 | 0.25 | | 0.35 | | 0.39 | 0.18 | 0.39 |
| 29 | 0.41 | | | 0.29 | 0.34 | | 0.33 | 0.19 | | 0.36 | 0.15 | |
| 30 | 0.55 | | | 0.40 | 0.37 | | 0.30 | 0.20 | 0.37 | 0.34 | 0.15 | |
| 31 | 0.34 | | 0.35 | | 0.22 | | 0.29 | | | 0.33 | | 0.44 |
| Total | 7.02 | 5.10 | 7.52 | 6.38 | 6.75 | 5.73 | 6.58 | 6.26 | 5.96 | 7.41 | 5.50 | 8.29 |
| Min. | 0.17 | 0.16 | 0.24 | 0.24 | 0.14 | 0.15 | 0.16 | 0.19 | 0.19 | 0.16 | 0.11 | 0.20 |
| Max | 0.56 | 0.42 | 0.57 | 0.40 | 0.41 | 0.36 | 0.39 | 0.37 | 0.37 | 0.48 | 0.42 | 0.59 |
| Avg. | 0.33 | 0.28 | 0.36 | 0.30 | 0.31 | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.25 | 0.39 |

CH2MHILL Influent Flows Vanastra STP 2013

| Date | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|
| 1 | 568 | 1267 | 951 | 716 | 711 | 836 | 612 | 728 | 86 | 63 | 1311 | 155 |
| 2 | 559 | 1152 | 860 | 672 | 665 | 741 | 576 | 357 | 119 | 59 | 855 | 182 |
| 3 | 206 | 1051 | 801 | 643 | 640 | 659 | 568 | 329 | 86 | 52 | 580 | 183 |
| 4 | 316 | 1229 | 740 | 637 | 618 | 626 | 561 | 185 | 80 | 113 | 673 | 342 |
| 5 | 570 | 1503 | 690 | 621 | 617 | 526 | 621 | 134 | 72 | 107 | 651 | 559 |
| 6 | 571 | 1497 | 682 | 621 | 592 | 602 | 526 | 202 | 71 | 159 | 650 | 275 |
| 7 | 544 | 1414 | 681 | 636 | 568 | 586 | 626 | 288 | 81 | 725 | 558 | 210 |
| 8 | 544 | 662 | 744 | 683 | 567 | 575 | 619 | 353 | 77 | 433 | 600 | 185 |
| 9 | 593 | 646 | 924 | 898 | 554 | 563 | 994 | 209 | 68 | 364 | 575 | 250 |
| 10 | 601 | 654 | 1258 | 1604 | 608 | 554 | 738 | 86 | 67 | 411 | 342 | 115 |
| 11 | 1345 | 806 | 1663 | 1578 | 598 | 817 | 648 | 80 | 65 | 236 | 210 | 99 |
| 12 | 1526 | 753 | 1572 | 1647 | 602 | 660 | 603 | 78 | 67 | 111 | 220 | 95 |
| 13 | 1532 | 724 | 1315 | 1507 | 568 | 643 | 577 | 72 | 55 | 106 | 220 | 83 |
| 14 | 1431 | 715 | 1315 | 1230 | 560 | 983 | 558 | 67 | 52 | 95 | 225 | 80 |
| 15 | 1124 | 713 | 1501 | 1022 | 551 | 601 | 534 | 72 | 59 | 86 | 235 | 79 |
| 16 | 1223 | 686 | 1500 | 1338 | 538 | 868 | 503 | 71 | 62 | 109 | 252 | 67 |
| 17 | 1427 | 670 | 1296 | 1500 | 521 | 702 | 493 | 76 | 55 | 134 | 360 | 71 |
| 18 | 986 | 671 | 771 | 1579 | 523 | 634 | 489 | 71 | 54 | 206 | 599 | 67 |
| 19 | 722 | 1334 | 740 | 1664 | 520 | 598 | 510 | 58 | 53 | 209 | 337 | 66 |
| 20 | 1086 | 1277 | 693 | 1405 | 580 | 576 | 492 | 58 | 247 | 228 | 461 | 84 |
| 21 | 1200 | 866 | 678 | 1104 | 736 | 553 | 486 | 55 | 700 | 263 | 236 | 121 |
| 22 | 1244 | 790 | 650 | 1338 | 274 | 554 | 469 | 51 | 350 | 282 | 219 | 530 |
| 23 | 613 | 739 | 663 | 1502 | 626 | 548 | 508 | 48 | 296 | 363 | 221 | 294 |
| 24 | 585 | 703 | 671 | 1501 | 581 | 542 | 468 | 53 | 409 | 538 | 220 | 203 |
| 25 | 584 | 673 | 645 | 1500 | 565 | 537 | 253 | 57 | 170 | 806 | 180 | 167 |
| 26 | 576 | 700 | 676 | 1500 | 565 | 521 | 41 | 57 | 88 | 837 | 137 | 144 |
| 27 | 577 | 1044 | 764 | 1206 | 538 | 510 | 123 | 55 | 78 | 1313 | 136 | 127 |
| 28 | 658 | 1075 | 800 | 839 | 746 | 1023 | 128 | 80 | 78 | 713 | 118 | 132 |
| 29 | 1301 | | 809 | 883 | 1390 | 866 | 124 | 66 | 74 | 627 | 120 | 135 |
| 30 | 1830 | | 791 | 764 | 980 | 664 | 84 | 135 | 67 | 670 | 135 | 113 |
| 31 | 1658 | | 772 | | 836 | | 147 | 139 | | 1022 | | 104 |
| Total | 28300 | 26014 | 28616 | 34338 | 19538 | 19668 | 14679 | 4370 | 3886 | 11440 | 11636 | 5317 |
| Min. | 206 | 646 | 645 | 621 | 274 | 510 | 41 | 48 | 52 | 52 | 118 | 66 |
| Max | 1830 | 1503 | 1663 | 1664 | 1390 | 1023 | 994 | 728 | 700 | 1313 | 1311 | 559 |
| Avg. | 913 | 929 | 923 | 1145 | 630 | 656 | 474 | 141 | 130 | 369 | 388 | 172 |

CH2HILL Effluent Flows Vanastra STP 2013

| Date | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 285 | 1272 | 891 | 556 | 553 | 916 | 594 | 2044 | 463 | 369 | 2818 | 816 |
| 2 | 282 | 1052 | 767 | 478 | 497 | 800 | 534 | 1451 | 663 | 334 | 2201 | 906 |
| 3 | 109 | 926 | 654 | 427 | 474 | 631 | 513 | 1455 | 512 | 343 | 1821 | 902 |
| 4 | 179 | 1166 | 605 | 425 | 536 | 564 | 462 | 989 | 437 | 657 | 1955 | 1320 |
| 5 | 318 | 1497 | 473 | 468 | 418 | 536 | 576 | 788 | 354 | 648 | 1922 | 1717 |
| 6 | 342 | 1490 | 510 | 472 | 361 | 547 | 412 | 1057 | 320 | 825 | 1654 | 1282 |
| 7 | 261 | 1453 | 545 | 485 | 404 | 521 | 664 | 1352 | 451 | 2017 | 1825 | 989 |
| 8 | 267 | 567 | 596 | 534 | 440 | 455 | 622 | 1491 | 351 | 2398 | 1845 | 856 |
| 9 | 346 | 436 | 798 | 801 | 304 | 401 | 1141 | 929 | 346 | 1357 | 1829 | 1044 |
| 10 | 373 | 482 | 1196 | 1741 | 431 | 921 | 831 | 447 | 278 | 1471 | 1325 | 641 |
| 11 | 1317 | 701 | 1734 | 1737 | 383 | 657 | 687 | 530 | 297 | 1004 | 1022 | 588 |
| 12 | 1529 | 651 | 1627 | 1786 | 412 | 593 | 584 | 458 | 351 | 598 | 1041 | 572 |
| 13 | 1546 | 594 | 1300 | 1612 | 325 | 1116 | 506 | 444 | 312 | 613 | 1070 | 496 |
| 14 | 1421 | 615 | 1260 | 1218 | 367 | 607 | 459 | 391 | 262 | 493 | 1118 | 490 |
| 15 | 1017 | 553 | 1520 | 946 | 322 | 543 | 406 | 333 | 342 | 531 | 1159 | 493 |
| 16 | 1154 | 483 | 1487 | 1295 | 296 | 928 | 352 | 321 | 328 | 748 | 1191 | 392 |
| 17 | 1359 | 450 | 1204 | 1519 | 276 | 717 | 377 | 286 | 255 | 728 | 1291 | 445 |
| 18 | 889 | 492 | 651 | 1940 | 313 | 597 | 339 | 293 | 244 | 1017 | 1774 | 424 |
| 19 | 592 | 1342 | 585 | 2071 | 3038 | 523 | 410 | 252 | 283 | 1049 | 1434 | 429 |
| 20 | 469 | 1262 | 518 | 1488 | 3974 | 468 | 401 | 263 | 965 | 1087 | 1666 | 507 |
| 21 | 406 | 710 | 513 | 1039 | 2422 | 438 | 338 | 271 | 1987 | 1185 | 1108 | 679 |
| 22 | 378 | 698 | 474 | 1322 | 268 | 450 | 318 | 322 | 1482 | 1302 | 1078 | 1735 |
| 23 | 379 | 645 | 495 | 1554 | 635 | 370 | 431 | 256 | 1167 | 1438 | 976 | 1272 |
| 24 | 279 | 582 | 480 | 1628 | 523 | 373 | 270 | 236 | 1450 | 1778 | 852 | 902 |
| 25 | 283 | 500 | 469 | 1633 | 452 | 412 | 325 | 245 | 790 | 2132 | 828 | 781 |
| 26 | 276 | 565 | 515 | 1547 | 436 | 360 | 288 | 283 | 460 | 2185 | 749 | 735 |
| 27 | 317 | 986 | 638 | 1171 | 383 | 391 | 608 | 247 | 422 | 2693 | 745 | 682 |
| 28 | 475 | 1030 | 672 | 743 | 773 | 1193 | 825 | 366 | 464 | 1616 | 608 | 723 |
| 29 | 1260 | | 644 | 774 | 1610 | 973 | 744 | 285 | 491 | 1440 | 580 | 711 |
| 30 | 1877 | | 606 | 646 | 1025 | 676 | 519 | 496 | 410 | 1762 | 722 | 600 |
| 31 | 1729 | | 661 | | 898 | | 716 | 738 | | 2360 | | 602 |
| Total | 21714 | 23200 | 25088 | 34056 | 23549 | 18677 | 16252 | 19319 | 16937 | 38178 | 40207 | 24731 |
| Min. | 109 | 436 | 469 | 425 | 268 | 360 | 270 | 236 | 244 | 334 | 580 | 392 |
| Max | 1877 | 1497 | 1734 | 2071 | 3974 | 1193 | 1141 | 2044 | 1987 | 2693 | 2818 | 1735 |
| Avg. | 700 | 829 | 809 | 1135 | 760 | 623 | 524 | 623 | 565 | 1232 | 1340 | 798 |

Municipality of Huron East Vanastra STP Monthly/Yearly Average Lab Results

| RAW SEWAGE | | | | | FINAL EFFLUENT | | | | | | | | MONTHLY FLOWS | | | |
|---------------|--------------|---------------|-------------|-----------------|----------------|---------------|-----------------|-------------|--------------|------|------|-------|---------------|------|------|-----|
| Test Date | BOD5 mg/L | S. S. mg/L | TKN mg/L | Total P mg/L | Ammonia E-Coli | | | | | | | | Total | Min | Max | Avg |
| | | | | | BOD5 mg/L | S. S. mg/L | Total P mg/L | NH3 mg/L | Per 100ml | pH | DO | | | | | |
| Jan | 320 | 320 | 24.0 | 2.6 | 4.0 | 21.0 | 0.27 | 0.15 | 26 | 7.46 | 9.5 | 21714 | 109 | 1877 | 700 | |
| Feb | 31 | 45 | 15.0 | 1.4 | 2.0 | 26.0 | 0.46 | 0.05 | 79 | 7.43 | 10.1 | 23200 | 436 | 1497 | 829 | |
| Mar | 43 | 43 | 17.0 | 1.7 | 2.0 | 10.0 | 0.61 | 0.05 | 55 | 7.66 | 12.3 | 25088 | 469 | 1734 | 809 | |
| Apr | 50 | 90 | 20.0 | 2.0 | 3.0 | 17.0 | 0.20 | 0.07 | 63 | 7.55 | 8.1 | 34056 | 425 | 2071 | 1135 | |
| May | 34 | 40 | 31.0 | 2.4 | 2.0 | 5.0 | 0.15 | 0.24 | 34 | 7.57 | 7.8 | 23549 | 268 | 3974 | 760 | |
| Jun | 130 | 99 | 32.0 | 3.9 | 2.0 | 7.0 | 0.13 | 0.05 | 68 | 7.52 | 6.9 | 18677 | 360 | 1193 | 623 | |
| Jul | 91 | 94 | 32.0 | 3.8 | 3.0 | 4.0 | 0.19 | 0.07 | 79 | 7.54 | 6.5 | 16252 | 270 | 1141 | 524 | |
| Aug | 40 | 37 | 13.0 | 1.1 | 2.0 | 1.0 | 0.11 | 0.05 | 103 | 7.66 | 7.6 | 19319 | 236 | 2044 | 623 | |
| Sep | 150 | 120 | 32.0 | 3.4 | 2.0 | 2.0 | 0.16 | 0.05 | 20 | 7.87 | 8.4 | 16937 | 244 | 1987 | 565 | |
| Oct | 10 | 18 | 4.6 | 0.5 | 2.0 | 6.0 | 0.22 | 0.05 | 26 | 7.60 | 7.8 | 38178 | 334 | 2693 | 1232 | |
| Nov | 19 | 23 | 9.9 | 0.9 | 2.5 | 9.0 | 0.11 | 0.12 | 6340 | 7.72 | 10.2 | 40207 | 580 | 2818 | 1340 | |
| Dec | 37 | 94 | 16.0 | 1.4 | 2.0 | 10.0 | 0.11 | 0.05 | 146 | 7.60 | 10.5 | 24731 | 392 | 1735 | 798 | |
| Yearly | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | 301908 | | | |
| Average | 80 | 85 | 20.5 | 2.1 | 2.4 | 9.8 | 0.23 | 0.08 | 79 | 7.60 | 8.8 | 25159 | 344 | 2064 | 828 | |
| Minimum | 10 | 18 | 4.6 | 0.5 | 2.0 | 1.0 | 0.11 | 0.05 | 20 | 7.43 | 6.5 | 16252 | 109 | 1141 | 524 | |
| Maximum | 320 | 320 | 32.0 | 3.9 | 4.0 | 26.0 | 0.61 | 0.24 | 6340 | 7.87 | 12.3 | 40207 | 580 | 3974 | 1340 | |