

## Existing System Sewer Summary

**Community Name:** Tuscarora Township

**NPDES Discharge Permit No.** GW1810271

**Collection Sewer:** Gravity & FM

**Type:** (gravity, pressure, STED, vacuum)

| Sewers | Footage | Material | Age | Condition | No. of Manholes | Age | Condition |
|--------|---------|----------|-----|-----------|-----------------|-----|-----------|
| 8-inch | 17700   | PVC      |     | 7 good    | 72              |     | 7 good    |
| FM     | 7400    | HDPE     |     | 7 good    | 3               |     | 7 good    |

**Lift Stations:**

| L.S. No. | Number | Pumping  |     | Age    | Condition |
|----------|--------|----------|-----|--------|-----------|
|          |        | Capacity | Age |        |           |
| PS       | 2      | 300      |     | 7 good |           |
| Duplex   | 8      | 50       |     | 7 good |           |

**Treatment Type and Description:** SEQUOX Package Plant

| Units     | Storage Volume | Sludge (ft) | No. of Aerators | Hp | Mechanical     | Capacity | Age/Cond |
|-----------|----------------|-------------|-----------------|----|----------------|----------|----------|
| Primary   | NA             |             |                 |    | Anox. Tanks    | 12k gal  | 7 / good |
| Secondary | NA             |             |                 |    | Aeration Tanks | 99k gal  | 7 / good |
| Tertiary  | NA             |             |                 |    | Clarifier      | 40k gal  | 7 / good |

Digesters

Storage/Decant

61k gal

63k gal

7 / good

7 / good

**Discharge Type/Outfall:** Rapid Infiltration Beds to Groundwater

**Discharge Frequency:** Continuous

**Discharge Volume:** 96k gpd

**Discharge Effluent Criteria:** 10.0 BOD/10.0 TSS/5.0 TIN/1.0 NH3/0.9 TP

**Sewer Customer Information:**

|                       | No. of Existing Customers | Monthly Usage (gallons) | No. of Users after Project | Projected Total Usage |                           |
|-----------------------|---------------------------|-------------------------|----------------------------|-----------------------|---------------------------|
| Residential Dwellings | 45                        | 216000                  | 215                        | 1032000               | 4,800 gallons - 215 EDUs  |
| Other Users           | 116                       | 1449000                 | 127                        | 1608000               | 12,661 gallons - 335 EDUs |
| Totals                |                           | 1665000                 |                            | 2640000               | Total EDUs 550            |

**Rate Structure:** Existing      Proposed      **Average Monthly Billing at Current Rates (all customers)**

|                        |      |      |         |
|------------------------|------|------|---------|
| Residential Customers: | 33   | 35   |         |
| Commercial Customers:  | 71   | 73   |         |
| Bulk Customers:        | 2234 | 2234 | \$74.25 |

Yearly O & M Cost Before Improvements: **\$156,000**      Yearly O & M Cost After: **\$175,100**