

Application No. OH0020907

Issue Date: September 16, 2004

Effective Date: October 1, 2004

Expiration Date: July 31, 2009

Ohio Environmental Protection Agency
Authorization to Discharge Under the
National Pollutant Discharge Elimination System

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

The City of Eaton

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the Eaton wastewater treatment works located at 901 South Barron Street, Eaton, Ohio, Preble County and discharging to Sevenmile Creek in accordance with the conditions specified in Parts I, II, and III of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

Christopher Jones
Director

Total Pages: 37

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on permit effective date and lasting until permit expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: 1PC00001001. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 001 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | | Monitoring Requirements | | |
|---|-------------------------------|---------|--------|---------|-----------------|--------|---------|-------------------------|--------------------------------|-------------------|
| | Concentration Specified Units | | | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months |
| | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | |
| 00010 - Water Temperature - C | - | - | - | - | - | - | - | 1/Day | Maximum Indicating Thermometer | All |
| 00300 - Dissolved Oxygen - mg/l | - | 5.0 | - | - | - | - | - | 1/Day | Multiple Grab | All |
| 00530 - Total Suspended Solids - mg/l | - | - | 18 | 12 | - | 129 | 86 | 3/Week | Composite | All |
| 00556 - Oil and Grease, Freon Extr-Grav Meth - mg/l | 10 | - | - | - | - | - | - | 1 / 2 Weeks | Grab | All |
| 00610 - Nitrogen, Ammonia (NH3) - mg/l | - | - | 5.7 | 3.8 | - | 41 | 27 | 3/Week | Composite | Winter |
| 00610 - Nitrogen, Ammonia (NH3) - mg/l | - | - | 1.5 | 1.0 | - | 11 | 7.2 | 3/Week | Composite | Summer |
| 00630 - Nitrite Plus Nitrate, Total - mg/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 00665 - Phosphorus, Total (P) - mg/l | - | - | - | - | - | - | - | 1/Week | Composite | All |
| 00719 - Cyanide, Free - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01009 - Barium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01074 - Nickel, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01084 - Strontium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01094 - Zinc, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01113 - Cadmium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01114 - Lead, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01118 - Chromium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01119 - Copper, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|---|-------------------------------|--------|-----------------|-------|--------|---------------------|-------------------------|-------------------|---------------|-----------|
| | Concentration Specified Units | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months | | |
| Maximum | Minimum | Weekly | Monthly | Daily | Weekly | | | | Monthly | |
| 01220 - Chromium, Dissolved Hexavalent - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 31616 - Fecal Coliform - #/100 ml | - | - | 2000 | 1000 | - | - | - | 3/Week | Grab | Summer |
| 39100 - Bis(2-ethylhexyl) Phthalate - ug/l | - | - | - | 9.9 | - | - | 0.071 | 1/Quarter | Multiple Grab | Quarterly |
| 39700 - Hexachlorobenzene - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 39782 - Lindane - ug/l | - | - | - | 0.011 | - | - | 0.00007 | 1/Month | Grab | All |
| 50050 - Flow Rate - MGD | - | - | - | - | - | - | - | 1/Day | Continuous | All |
| 50060 - Chlorine, Total Residual - mg/l | 0.022 | - | - | - | - | - | - | 1/Day | Multiple Grab | Summer |
| 50092 - Mercury, Total (Low Level) - ng/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 61941 - pH, Maximum - S.U. | 9.0 | - | - | - | - | - | - | 1/Day | Multiple Grab | All |
| 61942 - pH, Minimum - S.U. | - | 6.5 | - | - | - | - | - | 1/Day | Multiple Grab | All |
| 70301 - Solids, Dissolved-Sum of - mg/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 80082 - CBOD 5 day - mg/l | - | - | 12 | 8 | - | 86 | 58 | 3/Week | Composite | All |

Notes for station 1PC00001001:

* Effluent loadings based on average design flow of 1.9 MGD.

- Total residual chlorine - See Part II, Items H, J.

- Nickel, zinc, cadmium, lead, total chromium, copper, barium, strontium, and mercury - See Part II, Item N.

- Mercury - See Part II, Item Q.

- Cyanide - See Part II, Item J

Part I, B. - BYPASS MONITORING LIMITATIONS AND MONITORING REQUIREMENTS

1. Bypass Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment plant's bypass when discharging, at Station Number 1PC00001002, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Bypass Monitoring - 002 - Final

| <u>Effluent Characteristic</u> Parameter | <u>Discharge Limitations</u> | | | | | | <u>Monitoring Requirements</u> | | | |
|---|-------------------------------|--------|-----------------|-------|--------|---------|--------------------------------|---------------|-------------------|-----|
| | Concentration Specified Units | | Loading* kg/day | | | | Measuring Frequency | Sampling Type | Monitoring Months | |
| Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | | |
| 00530 - Total Suspended Solids - mg/l | - | - | - | - | - | - | - | 1/Day | Grab | All |
| 50050 - Flow Rate - MGD | - | - | - | - | - | - | - | 1/Day | Continuous | All |
| 80082 - CBOD 5 day - mg/l | - | - | - | - | - | - | - | 1/Day | Grab | All |
| 80998 - Bypass Occurrence, Number per month - No./Month | - | - | - | - | - | - | - | 1/Day | Continuous | All |
| 80999 - Bypass Duration, Hours per month - Hr/Month | - | - | - | - | - | - | - | 1/Day | Continuous | All |

Part I, B. - SSO MONITORING EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. SSO Monitoring. During the period beginning on permit effective date and lasting until permit expiration date, the permittee shall monitor at Station Number 1PC00001300, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - SSO Monitoring - 300 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | | Monitoring Requirements | | |
|--|-------------------------------|---------|-----------------|---------|-------|--------|---------|-------------------------|-------------------|----------------------|
| | Concentration Specified Units | | Loading* kg/day | | | | | Measuring Frequency | Sampling Type | Monitoring Months |
| | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | |
| 74062 - Overflow Occurrence - No./Month | - | - | - | - | - | - | - | - | When Disch. Total | All |

NOTES for Station Number 1PC00001300:

***See Part II, Item S.

- A sanitary sewer overflow is an overflow, spill, release, or diversion of wastewater from a sanitary sewer system. These overflows shall be monitored when they discharge.

- For the purpose of counting occurrences, each location on the sanitary sewer system where there is an overflow, spill, release, or diversion of wastewater on a given day that enters waters of the state is counted as one occurrence. For example, if on a given day overflows occur from a manhole at one location and from a damaged pipe at another location and they both enter waters of the state, record two occurrences for that day. If overflows from both locations continue on the following day, record two occurrences for the following day. At the end of the month, total the daily occurrences and report this number in the first column of the first day of the month on the 4500 form. If there are no overflows during the entire month, report "zero" (0).

- All sanitary sewer overflows are prohibited except under emergency conditions where the overflow occurs in full compliance with all of the provisions of 40 CFR 122.41(m) and Part III Item 11 of this NPDES permit.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

1. Sludge Monitoring. During the period beginning on permit effective date and lasting until permit expiration date, the permittee shall monitor the treatment works' final sludge at Station Number 1PC00001581, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sludge sampling.

Table - Sludge Monitoring - 581 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|--|-------------------------------|--------|-----------------|-------|--------|---------------------|-------------------------|-------------------|-----------|-----------|
| | Concentration Specified Units | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months | | |
| Maximum | Minimum | Weekly | Monthly | Daily | Weekly | | | | Monthly | |
| 00400 - pH - S.U. | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 00668 - Phosphorus, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01003 - Arsenic, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01028 - Cadmium, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01029 - Chromium, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01043 - Copper, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01052 - Lead, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01068 - Nickel, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01093 - Zinc, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01148 - Selenium, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 70316 - Sludge Weight - Dry Tons | - | - | - | - | - | - | - | 1/Day | Total | All |
| 70318 - Sludge Solids, Percent Total - % | - | - | - | - | - | - | - | 1/Day | Grab | All |
| 70322 - Sludge Solids, Percent Volatile - % | - | - | - | - | - | - | - | 1/Day | Grab | All |
| 71921 - Mercury, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 78465 - Molybdenum In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 99991 - Nitrogen, Ammonia In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Month | Composite | All |

NOTES for Station Number 1PC00001581:

* Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by land application. If no sludge is removed during the entire month, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

** Units of mg/kg are on a dry weight basis.

*** Sludge weight is a calculated total for the sampling period.

- See Part II, Items K, O, and P.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

1. Sludge Monitoring. During the period beginning on permit effective date and lasting until permit expiration date, the permittee shall monitor the treatment works' final sludge at Station Number 1PC00001588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sludge sampling.

Table - Sludge Monitoring - 588 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|--|-------------------------------|---------|-----------------|---------|-------|---------------------|-------------------------|-------------------|--------|---------|
| | Concentration Specified Units | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months | | |
| | Maximum | Minimum | Weekly | Monthly | Daily | | | | Weekly | Monthly |
| 70316 - Sludge Weight - Dry Tons | - | - | - | - | - | - | - | 1/Day | Total | All |

NOTES for Station Number 1PC00001588:

* Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by mixed solid waste landfill. If no sludge is removed during the entire month, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

** Units of mg/kg are on a dry weight basis.

*** Sludge weight is a calculated total for the sampling period.

- See Part II, Items K, O, and P.

Part I, B. - INFLUENT MONITORING REQUIREMENTS

1. Influent Monitoring. During the period beginning on permit effective date and lasting until permit expiration date, the permittee shall monitor the treatment works' influent wastewater at Station Number 1PC00001601, and report to the Ohio EPA in accordance with the following table. Samples of influent used for determination of net values or percent removal must be taken the same day as those samples of effluent used for that determination. See Part II, OTHER REQUIREMENTS, for location of influent sampling.

Table - Influent Monitoring - 601 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|---|-------------------------------|--------|-----------------|-------|--------|---------------------|-------------------------|-------------------|---------------|-----------|
| | Concentration Specified Units | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months | | |
| Maximum | Minimum | Weekly | Monthly | Daily | Weekly | | | | Monthly | |
| 00530 - Total Suspended Solids - mg/l | - | - | - | - | - | - | - | 3/Week | Composite | All |
| 00720 - Cyanide, Total - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01007 - Barium Total (Ba) - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01074 - Nickel, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01082 - Strontium, Total (Sr) - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01094 - Zinc, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01113 - Cadmium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01114 - Lead, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01118 - Chromium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Composite | Quarterly |
| 01119 - Copper, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 01220 - Chromium, Dissolved Hexavalent - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 39100 - Bis(2-ethylhexyl) Phthalate - ug/l | - | - | - | - | - | - | - | 1/Quarter | Multiple Grab | Quarterly |
| 39700 - Hexachlorobenzene - ug/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 39782 - Lindane - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 50092 - Mercury, Total (Low Level) - ng/l | - | - | - | - | - | - | - | 1/Month | Composite | All |
| 61941 - pH, Maximum - S.U. | - | - | - | - | - | - | - | 1/Day | Multiple Grab | All |
| 61942 - pH, Minimum - S.U. | - | - | - | - | - | - | - | 1/Day | Multiple Grab | All |

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | | | | | | | <u>Monitoring Requirements</u> | | |
|--------------------------------|-------------------------------|---------|---------|--------|-----------------|-------|--------|--------------------------------|---------------|-------------------|
| | Concentration Specified Units | | | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months |
| | Parameter | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | | | |
| 80082 - CBOD 5 day - mg/l | - | - | - | - | - | - | - | 3/Week | Composite | All |

NOTES for Station Number 1PC00001601:

* Nickel, zinc, cadmium, lead, total chromium, copper, barium, strontium, and mercury - See Part II, Item N.

- Cyanide - See Part II, Item J.

- Mercury - See Part II, Item Q

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

1. Upstream Monitoring. During the period beginning on permit effective date and lasting until permit expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 1PC00001801, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Upstream Monitoring - 801 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | | Monitoring Requirements | | |
|--|-------------------------------|---------|--------|---------|-----------------|--------|---------|-------------------------|------------------|----------------------|
| | Concentration Specified Units | | | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months |
| | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | |
| 00010 - Water Temperature - C | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00300 - Dissolved Oxygen - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00400 - pH - S.U. | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00610 - Nitrogen, Ammonia (NH3) - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 31616 - Fecal Coliform - #/100 ml | - | - | - | - | - | - | - | 1/Month | Grab | Summer |

Part I, B. - DOWNSTREAM-NEARFIELD MONITORING REQUIREMENTS

1. Downstream-Nearfield Monitoring. During the period beginning on permit effective date and lasting until permit expiration date, the permittee shall monitor the receiving stream, downstream of the point of discharge, at Station Number 1PC00001901, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Downstream-Nearfield Monitoring - 901 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|---|-------------------------------|---------|-----------------|---------|-------|---------------------|-------------------------|-------------------|--------|-----------|
| | Concentration Specified Units | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months | | |
| | Maximum | Minimum | Weekly | Monthly | Daily | | | | Weekly | Monthly |
| 00010 - Water Temperature - C | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00300 - Dissolved Oxygen - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00400 - pH - S.U. | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00610 - Nitrogen, Ammonia (NH3) - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00720 - Cyanide, Total - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 00900 - Hardness, Total (CaCO3) - mg/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01007 - Barium Total (Ba) - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01074 - Nickel, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 01082 - Strontium, Total (Sr) - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01094 - Zinc, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 01113 - Cadmium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01114 - Lead, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 01118 - Chromium, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 01119 - Copper, Total Recoverable - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 01220 - Chromium, Dissolved Hexavalent - ug/l | - | - | - | - | - | - | - | 1/Quarter | Grab | Quarterly |
| 31616 - Fecal Coliform - #/100 ml | - | - | - | - | - | - | - | 1/Month | Grab | Summer |
| 39100 - Bis(2-ethylhexyl) Phthalate - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 39700 - Hexachlorobenzene - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | | | | | | | <u>Monitoring Requirements</u> | | |
|---|-------------------------------|---------|-----------------|---------|-------|--------|---------|--------------------------------|---------------|-------------------|
| | Concentration Specified Units | | Loading* kg/day | | | | | Measuring Frequency | Sampling Type | Monitoring Months |
| Parameter | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | |
| 39782 - Lindane - ug/l | - | - | - | - | - | - | - | 1/Month | Grab | All |
| 50092 - Mercury, Total (Low Level) - ng/l | - | - | - | - | - | - | - | 1/Month | Grab | All |

NOTES for Station Number 1PC00001901:

* Nickel, zinc, cadmium, lead, total chromium, copper, barium, strontium, and mercury - See Part II, Item N.

- Cyanide - See Part II, Item J.

- Mercury - See Part II, Item Q.

Part I, C - Schedule of Compliance

A. Municipal Pretreatment Schedule

1. The permittee shall evaluate the adequacy of local industrial user limitations to attain compliance with final table limits. A technical justification for revising local industrial user limitations to attain compliance with final table limits, along with a pretreatment program modification request, or technical justification for retaining existing local industrial user limitations shall be submit to Ohio EPA, Central Office Pretreatment Unit, in duplicate,as soon as possible, but no later than 4 months after the effective date of this permit. (Event Code 52599)

Technical justification is required for cadmium, chromium, copper, lead, nickel, and zinc. Technical justification is also required for arsenic, cyanide, mercury, and silver unless screening of wastewater and sludge indicate these pollutants are not present in significant amounts. Furthermore, technical justification is required for any other pollutants where a local limit may be necessary to protect against pass through and interference.

To demonstrate technical justification for new local industrial user limits or justification for retaining existing limits, the following information must be submitted to Ohio EPA:

- a. Domestic/background and industrial pollutant contributions
- b. Treatment plant removal efficiencies
- c. A comparison of maximum allowable headworks loadings based on all applicable criteria. Criteria may include sludge disposal, NPDES permit limits, and interference with biological processes such as activated sludge, sludge digestion, nitrification, etc
- d. If revised industrial user discharge limits are proposed, the method of allocating available pollutant loads to industrial users
- e. Supporting data, assumptions, and methodologies used in establishing the information A through D above
- f. If revisions to local industrial user limitations are required to attain compliance with the final table limits, no later than 8 months after the effective date of this permit, the permittee shall incorporate revised local industrial user limitations in all industrial user control documents. (Event Code 52699)

B. Municipal Pretreatment Schedule - Mercury

1. The permittee shall evaluate the adequacy of local industrial user limitations for mercury. Technical justification for revising local industrial user limitations, along with a pretreatment program modification request, or technical justification for retaining existing local industrial user limitations shall be submitted to Ohio EPA. If screening of wastewater and sludge indicates that mercury is not present in significant amounts, the permittee may submit a technical justification that local industrial user limits for mercury are not currently necessary. The technical justification shall be submitted to the Central Office Pretreatment Unit, in duplicate, as soon as possible, but not later than 28 months from the effective date of this permit (Event Code 52599).

To demonstrate technical justification for new numeric local limits or justification for retaining existing numeric limits, the following information must be submitted to Ohio EPA:

- a. Domestic/background and industrial pollutant contributions. When representative sampling of the collection system or industrial pollutant contributors conducted using EPA Method 245.1 or 245.2 shows mercury concentrations that are below detection, EPA Method 1631 shall be used to quantify domestic/background and industrial pollutant contributions of mercury.
- b. Treatment plant removal efficiencies. When representative sampling of the influent or effluent conducted using EPA Method 245.1 or 245.2 shows mercury concentrations that are below detection, EPA Method 1631 shall be used to quantify influent and effluent mercury concentrations.
- c. A comparison of maximum allowable headworks loadings based on all applicable criteria. Criteria may include sludge disposal, NPDES permit limits, and interference with biological processes such as activated sludge, sludge digestion, nitrification, etc.
- d. If revised industrial user discharge limits are proposed, the method of allocating available pollutant loads to industrial users. When appropriate, revised industrial user discharge limits may include narrative local limits requiring industrial users to develop and implement best management practices for mercury. These narrative local limits may be used either alone or as a supplement to a numeric limit.
- e. Supporting data, assumptions, and methodologies used in establishing the information a through d above.

To demonstrate technical justification that local limits for mercury are not currently necessary, the permittee shall submit effluent and sludge data showing that mercury is not present in significant amounts. The data shall be accompanied by an evaluation supporting the determination that local limits for mercury are not currently necessary.

2. If revisions to local industrial user limitations for mercury are determined to be necessary to comply with all applicable criteria or if local limits are not currently necessary, the permittee shall incorporate revised conditions in all industrial user control documents no later than 36 months after the effective date of this permit. (Event Code 52699)

Part II, Other Requirements

- A. The wastewater treatment works must be under supervision of a Class IV State certified operator as required by rule 3745-7- 02 of the Ohio Administrative Code.
- B. The plant must be staffed and operated in accordance with the Ohio EPA approved Operation and Maintenance Manual.
- C. Description of the location of the required sampling stations are as follows:

| Sampling Station | Description of Location |
|------------------|-------------------------|
|------------------|-------------------------|

| | |
|-------------|--|
| 1PC00001001 | Final effluent (Lat: 39 N 43 ' 52"; Long: 83 W 38' 49") |
| 1PC00001002 | Bypass of Secondary Treatment |
| 1PC00001300 | Sanitary Sewer Overflows |
| 1PC00001581 | Sludge to landfill application |
| 1PC00001588 | Sludge to disposal at landfill |
| 1PC00001601 | WWTP influent |
| 1PC00001801 | Upstream monitoring station |
| 1PC00001901 | Downstream monitoring station |

D. All parameters, except flow, need not be monitored on days when the plant is not normally staffed (Saturdays, Sundays, and Holidays). On those days, report "AN" on the monthly report form.

E. Composite samples shall be comprised of at least three grab samples proportionate in volume to the sewage flow rate at the time of sampling and collected at intervals of at least 30 minutes, but not more than 2 hours, during the period that the plant is staffed on each day for sampling. Such samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's overall performance.

F. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's performance.

G. Multiple grab samples shall be comprised of at least three grab samples collected at intervals of at least three hours during the period that the plant is staffed on each day for sampling. Samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's overall performance. The critical value shall be reported.

H. Effluent disinfection is not directly required, however, the entity is required to meet all applicable discharge permit limits. If disinfection facilities exist, they shall be maintained in an operable condition. Any design of wastewater treatment facilities should provide for the capability to install disinfection if required at a future time. Disinfection may be required if future bacteriological studies or emergency conditions indicate the need.

I. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved.

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

J. The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136. OEPA QLs may be expressed as Practical Quantification Levels (PQL) or Minimum Levels (ML).

Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit. For average effluent limits, compliance shall be determined by taking the arithmetic mean of values reported for a specified averaging period, using zero (0) for any value reported at a concentration less than the OEPA QL, and comparing that mean to the appropriate average effluent limit. An arithmetic mean that is less than or equal to the average effluent limit shall be considered in compliance with that limit.

The permittee must utilize the lowest available detection method currently approved under 40 CFR Part 136 for monitoring these parameters.

REPORTING:

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.
2. Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
3. Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

The following table of quantification levels will be used to determine compliance with NPDES permit limits:

| Parameter | PQL | ML |
|-----------------------------|------------|----|
| Chlorine, Total Residual | 0.050 mg/l | -- |
| Bis(2-ethylhexyl) phthalate | 10 ug/l | -- |
| Lindane (gamma-BHC) | 0.02 ug/l | -- |

This permit may be modified, or, alternatively, revoked and reissued, to include more stringent effluent limits or conditions if information generated as a result of the conditions of this permit indicate the presence of these pollutants in the discharge at levels above the water quality based effluent limit (WQBEL).

K. A composite sample of sewage sludge collected at station(s) 581 (non-EQ sludge) and/or 584 (EQ sludge) shall be monitored for dioxin in sewage sludge, as the term dioxin is defined in rule 3745-40-01 of the Ohio Administrative Code, and the results reported to Ohio EPA as per rule 3745-40-06 of the Ohio Administrative Code.

L. POTWs that accept hazardous wastes by truck, rail, or dedicated pipeline are considered to be hazardous waste treatment, storage, and disposal facilities (TSDFs) and are subject to regulation under the Resource Conservation and Recovery Act (RCRA). Under the "permit-by-rule" regulation found at 40 CFR 270.60(c), a POTW must:

- 1) comply with all conditions of its NPDES permit,
- 2) obtain a RCRA ID number and comply with certain manifest and reporting requirements under RCRA,
- 3) satisfy corrective action requirements, and
- 4) meet all federal, state, and local pretreatment requirements.

M. Final permit limitations based on preliminary or approved waste load allocations are subject to change based on modifications to or finalization of the allocation or report or changes to Water Quality Standards. Monitoring requirements and/or special conditions of this permit are subject to change based on regulatory or policy changes.

N. Sampling for these parameters at station 1PC00001001, 1PC00001601, and 1PC00001901 shall occur the same day.

Sampling at station 1PC00001001 for these parameters shall occur one detention time (the time it takes for a volume of water to travel through the treatment plant) after sampling at station 1PC00001601 for the same parameters on the same day.

Sampling at station 1PC00001601 for these parameters shall occur one detention time (the time it takes for a volume of water to travel through the treatment plant) prior to sampling at station 1PC00001001 for the same parameters on the same day.

O. Within 6 months of the effective date of this permit, the permittee shall submit to the appropriate Ohio EPA District Office an evaluation of its approved sludge management plan.

This evaluation shall examine the adequacy of the plan, including any implementation problems encountered and any changes required, and is to reflect the actual sludge disposal practices. If significant changes are required, the permittee may be required to submit for approval a modified sludge management plan.

P. Not later than January 31 of each calendar year, the permittee shall submit two (2) copies of a report summarizing the sludge disposal and/or reuse activities of the facility during the previous year. One copy of the report shall be sent to the Ohio EPA, Division of Surface Water, Central Office, and one copy of the report shall be sent to the appropriate Ohio EPA District Office. This report shall address:

- 1) Amount of sludge disposed of/reused in dry tons.
- 2) Method(s) of disposal/reuse.
- 3) Summary of all analyses made on the sludge, including any priority pollutant scans that may have been performed. (If a priority pollutant scan has been conducted as a part of the pretreatment program, the most recent analysis should be submitted.)
- 4) Problems encountered including any complaints received. The cause or reason for the problem and corrective actions taken to solve the problem should also be included. Any incidents of interference with the method of sludge disposal shall be identified, along with the cause of interference (i.e., excessive metals concentration, contaminated sludge, etc.) and the corrective actions taken.

Q. The permittee shall use EPA Method 1631, Revision B, promulgated under 40 CFR 136, to comply with the Mercury monitoring requirements of this permit. The method detection level for Method 1631 is 0.2 ng/l.

R. Pretreatment Program Requirements

The permittee's approved pretreatment program and subsequent modifications listed below, including conditions of such approvals, shall be an enforceable term and condition of this permit.

| Description of Modification | Date of Approval |
|----------------------------------|------------------------------|
| Monitoring Frequencies | 5/20/91 |
| Local Limits | 06/29/99, 04/04/96, 01/07/95 |
| Enforcement Management System | 06/26/91 |
| Permits | 12/20/95, 05/10/93, 10/23/91 |
| Ordinance | 10/23/91 |
| Significant Industrial User List | 12/20/95 |

To ensure that the approved program is implemented in accordance with 40 CFR 403 and Chapter 6111 of the Ohio Revised Code, the permittee shall comply with the following conditions:

1. Legal Authority

The permittee shall adopt and maintain legal authority which enables it to fully implement and enforce all aspects of its approved pretreatment program including the identification and characterization of industrial sources, issuance of control documents, compliance monitoring and reporting, and enforcement.

2. Industrial User Inventory

The permittee shall identify all industrial users subject to pretreatment standards and requirements and characterize the nature and volume of pollutants in their wastewater. Dischargers determined to be Significant Industrial Users according to OAC 3745-3-01(CC) must be notified of applicable pretreatment standards and requirements within 30 days of making such a determination. This inventory shall be updated at a frequency to ensure proper identification and characterization of industrial users.

3. Local Limits

The permittee shall develop and enforce technically based local limits to prevent the introduction of pollutants into the POTW which will interfere with the operation of the POTW, pass through the treatment works, be incompatible with the treatment works, or limit wastewater or sludge use options.

For the following pollutants for which the permittee has no discharge limitation, local limits shall be developed to achieve discharge levels at or below these water quality based criteria:

| | |
|----------------------|------------|
| Arsenic | 186 ug/l |
| Cadmium | 7.4 ug/l |
| Chromium, hexavalent | 14 ug/l |
| Chromium, total | 273 ug/l |
| Copper | 30 ug/l |
| Cyanide, free | 15 ug/l |
| Lead | 34 ug/l |
| Mercury | 0.033 ug/l |
| Molybdenum | 137 ug/l |
| Nickel | 174 ug/l |
| Selenium | 6.2 ug/l |
| Zinc | 374 ug/l |

For the purpose of periodically reevaluating local limits, the permittee shall implement and maintain a sampling program to characterize pollutant contribution to the POTW from industrial and residential sources and to determine pollutant removal rates through the POTW. The permittee shall continue to review and develop local limits as necessary.

4. Control Mechanisms

The permittee shall issue individual control mechanisms to all industries determined to be Significant Industrial Users as defined in OAC 3745-3-01(CC). Control mechanisms must meet at least the minimum requirements of OAC-3745-3-03(C)(1)(c).

5. Industrial Compliance Monitoring

The permittee shall sample and inspect industrial users in accordance with the approved program. However, monitoring frequencies must be adequate to determine the compliance status of industrial users independent of information submitted by such users. Sample collection, preservation and analysis must be performed in accordance with procedures in 40 CFR 136 and with sufficient care to produce evidence admissible in judicial enforcement proceedings.

The permittee shall also require, receive, and review self-monitoring and other industrial user reports when necessary to determine compliance with pretreatment standards and requirements.

6. POTW Priority Pollutant Monitoring

The permittee shall annually monitor priority pollutants, as defined by U.S. EPA, in the POTW's influent, effluent and sludge. Sample collection, preservation, and analysis shall be performed using U.S. EPA approved methods.

a. A sample of the influent and the effluent shall be collected when industrial discharges are occurring at normal to maximum levels. Both samples shall be collected on the same day or, alternately, the effluent sample may be collected following the influent sample by approximately the retention time of the POTW. The samples shall be 24 hour composites except for volatile organics and cyanide which shall be collected by appropriate grab sampling techniques. Sampling of the influent shall be done prior to any recycle streams and sampling of the effluent shall be after disinfection.

Another sample shall be representative of sludge removed to final disposal. A minimum of one grab sample shall be taken during actual sludge removal and disposal unless the POTW uses more than one disposal option. If multiple disposal options are used, the POTW shall collect a composite of grab samples from all disposal practices which are proportional to the annual flows to each type of disposal.

b. A reasonable attempt shall be made to identify and quantify additional constituents (excluding priority pollutants and unsubstituted aliphatic compounds) at each sample location. Identification of additional peaks more than ten times higher than the adjacent background noise on the total ion plots (reconstructed gas chromatograms) shall be attempted through the use of U.S. EPA/NIH computerized library of mass spectra, with visual confirmation by an experienced analyst. Quantification may be based on an order of magnitude estimate compared with an internal standard.

The results of these samples must be submitted on Ohio EPA Form 4221 with the permittee's annual pretreatment report. Samples may be collected at any time during the 12 months preceding the due date of the annual report and may be used to fulfill other NPDES monitoring requirements where applicable.

7. Enforcement

The permittee shall investigate all instances of noncompliance with pretreatment standards and requirements and take timely, appropriate, and effective enforcement action to resolve the noncompliance in accordance with the permittee's approved enforcement response plan.

On or prior to January 15th of each year, the permittee shall publish, in the largest daily newspaper within the permittee's service area, a list of industrial users which, during the previous 12 months, have been in Significant Noncompliance [OAC 3745-3-03(C)(2)(g)] with applicable pretreatment standards or requirements.

8. Reporting

All reports required under this section shall be submitted to the following address in duplicate:

Ohio Environmental Protection Agency
Division of Surface Water
Pretreatment Unit
P.O. Box 1049
Columbus, OH 43266-0149

a. Quarterly Industrial User Violation Report

On or prior to the 15th day of February, May, August, and November, the permittee shall report the industrial users that are in violation of applicable pretreatment standards during the previous quarter. The report shall be prepared in accordance with guidance provided by Ohio EPA and shall include a description of all industrial user violations and corrective actions taken to resolve the violations.

b. Annual Pretreatment Report

On or prior to January 15th of each year, the permittee shall submit an annual report on the effectiveness of the pretreatment program, prepared in accordance with guidance provided by Ohio EPA.

The report shall include, but not be limited to: a discussion of program effectiveness; and industrial user inventory; a description of the permittee's monitoring program; a description of any pass through or interference incidents; a copy of the annual publication of industries in Significant Noncompliance; and, priority pollutant monitoring results.

9. Record Keeping

All records of pretreatment activities including, but not limited to, industrial inventory data, monitoring results, enforcement actions, and reports submitted by industrial users must be maintained for a minimum of three (3) years. This period of retention shall be extended during the course of any unresolved litigation. Records must be made available to Ohio EPA and U.S. EPA upon request.

10. Program Modifications

Any proposed modifications of the approved pretreatment program must be submitted to the Ohio EPA for review, on forms available from Ohio EPA and consistent with guidance provided by Ohio EPA. If the modification is deemed to be substantial, prior approval must be obtained before implementation; otherwise, the modification is considered to be effective 45 days after the date of application. Substantial program modifications include, among other things, changes to the POTW's legal authority, control mechanism, local limits, confidentiality procedures, or monitoring frequencies.

S. Sanitary Sewer Overflow (SSO) Reporting Requirements

A sanitary sewer overflow is an overflow, spill, release, or diversion of wastewater from a sanitary sewer system. SSOs do not include wet weather discharges from combined sewer overflows specifically listed in Part II of this NPDES permit (if any). All SSOs are prohibited except under emergency conditions where the overflow occurs in full compliance with all of the provisions of 40 CFR 122.41(m) and Part III Item 11 of this NPDES permit. Sanitary sewer overflows must be reported as required below.

1. Reporting for SSOs That Imminently and Substantially Endanger Human Health

a) Immediate Notification

You must notify Ohio EPA (1-800-282-9378) and the appropriate Board of Health (i.e., city or county) within one hour of learning of any SSO from your sewers or from your maintenance contract areas that may imminently and substantially endanger human health. The telephone report must identify the location, estimated volume and receiving water, if any, of the overflow. An SSO that may imminently and substantially endanger human health includes dry weather overflows, major line breaks, overflow events that result in fish kills or other significant harm, and overflow events that occur in sensitive waters and high exposure areas such as protection areas for public drinking water intakes and waters where primary contact recreation occurs.

b) Follow-Up Written Report

Within 5 days of the time you become aware of any SSO that may imminently and substantially endanger human health, you must provide the appropriate Ohio EPA district office a written report that includes:

- (i) the estimated date and time when the overflow began and stopped or will be stopped (if known);
- (ii) the location of the SSO including an identification number or designation if one exists;
- (iii) the receiving water (if there is one);
- (iv) an estimate of the volume of the SSO (if known);
- (v) a description of the sewer system component from which the release occurred (e.g., manhole, constructed overflow pipe, crack in pipe);
- (vi) the cause or suspected cause of the overflow;
- (vii) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps; and
- (viii) steps taken or planned to mitigate the impact(s) of the overflow and a schedule of major milestones for those steps.

A document showing the acceptable format for a 5-day follow up written report can be downloaded from the Ohio EPA Division of Surface Water Permits Program Technical Assistance web page at http://www.epa.state.oh.us/dsw/permits/technical_assistance.html

2. Reporting for All SSOs, Including Those That Imminently and Substantially Endanger Human Health

a) Monthly Operating Reports

Sanitary sewer overflows that enter waters of the state, either directly or through a storm sewer or other conveyance, shall be reported on your monthly operating reports. You must report the system-wide number of occurrences for SSOs that enter waters of the state in accordance with the requirements for station number 300. A monitoring table for this station is included in Part I, B of this NPDES permit. For the purpose of counting occurrences, each location on the sanitary sewer system where there is an overflow, spill, release, or diversion of wastewater on a given day is counted as one occurrence. For example, if on a given day overflows occur from a manhole at one location and from a damaged pipe at another location and they both enter waters of the state, you should record two occurrences for that day. If overflows from both locations continue on the following day, you should record two occurrences for the following day. At the end of the month, total the daily occurrences from all locations on your system and report this number using reporting code 74062 (Overflow Occurrence, No./Month) on the 4500 form for station number 300.

b) Annual Report

You must prepare an annual report of all SSOs in your collection system, including those that do not enter waters of the state. The annual report must be in an acceptable format (see below) and must include:

(i) A table that lists an identification number, a location description, and the receiving water (if any) for each existing SSO. If an SSO previously included in the list has been eliminated, this shall be noted. Assign each SSO location a unique identification by numbering them consecutively, beginning with 301.

(ii) A table that lists the date that an overflow occurred, the unique ID of the overflow, the name of affected receiving waters (if any), and the estimated volume of the overflow (in millions of gallons). The annual report may summarize information regarding overflows of less than approximately 1,000 gallons.

(iii) A table that summarizes the occurrence of water in basements (WIBs) by total number and by sewershed. The report shall include a narrative analysis of WIB patterns by location, frequency and cause.

Not later than March 31 of each year, beginning in 2005, you must submit two copies of the annual report for the previous calendar year to the appropriate Ohio EPA district office. You also must provide adequate notice to the public of the availability of the report.

Systems serving fewer than 10,000 people are not required to prepare an annual report if all monthly operating reports for the preceding calendar year show no discharge from overflows.

A document showing the acceptable format for an annual SSO report can be downloaded from the Ohio EPA Division of Surface Water Permits Program Technical Assistance web page at http://www.epa.state.oh.us/dsw/permits/technical_assistance.html .

T. The permittee shall maintain in good working order and operate as efficiently as possible the "treatment works" and "sewerage system" as defined in ORC 6111.01 to achieve compliance with the terms and conditions of this permit and to prevent discharges to the waters of the state, surface of the ground, basements, homes, buildings, etc.