

National Pollutant Discharge Elimination System (NPDES) Permit Program**PUBLIC NOTICE****NPDES Permit to Discharge to State Waters**

Ohio Environmental Protection Agency
Permits Section
50 West Town St., Suite 700
P. O. Box 1049
Columbus, Ohio 43216-1049
(614) 644-2001

Public Notice No.: 217095
Date of Issue of Public Notice: 12/22/2025
Name and Address of Applicant: Mid-Ohio Water and Sewer District, 2150 N London-Delaware Rd, West Jefferson, OH, 43162

Name and Address of Facility
Where Discharge Occurs: Deer Creek WRF, 2150 N London-Delaware Rd, West Jefferson, OH, 43162, Madison County

Outfall Flow and Location List:

001	5000000 GPD	Lat: 39.9479374	Long: -83.41823511
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Receiving Stream: Deer Creek

Nature of Business: The proposed facility is a wastewater treatment facility that will treat sewage from a new sanitary sewer collection system. Treated effluent will outfall to Deer Creek.

Key parameters to be limited in the permit are as follows: Dissolved Oxygen, Total Suspended Solids, Oil and Grease, Hexane Extr Method, Nitrogen, Ammonia (NH₃-N), Nitrogen, Inorganic, Total, Phosphorus, Total (P), E. coli, pH, Maximum, pH, Minimum, CBOD 5 day

The Director has, after evaluation of pertinent technical, social, and economic information, determined that the discharge specified in this permit will result in a change from ambient in water quality of the receiving stream. This change will not interfere with or become injurious to the existing designated use.

On the basis of preliminary staff review and application of standards and regulations, the director of the Ohio Environmental Protection Agency will issue a permit for the discharge subject to certain effluent conditions and special conditions. The draft permit will be issued as a final action unless the director revises the draft after consideration of the record of a public meeting or written comments, or upon disapproval by the administrator of the U.S. Environmental Protection Agency. Any person may submit written comments on the draft permit and administrative record. An Ohio EPA public hearing to accept comments on the draft NPDES permit will be held February 10, 2026, at 6:00 pm at the Tolles Career & Technical Center, 7877 U.S. 42, Plain City, OH 43064. The hearing will last until all written and oral comments have been received. Following final action by the director, any aggrieved party has the right to appeal to the Environmental Review Appeals Commission.

Interested persons are invited to submit written comments upon the discharge permit. Comments should be submitted in person, by E-mail or by mail no later than 5:00 pm, February 17, 2026. Comments should be e-mailed to epa.dswcomments@epa.ohio.gov or delivered or mailed to both of the following locations: 1) Ohio Environmental Protection Agency, Lazarus Government Center, Division of Surface Water, Permits Processing Unit, 50 West Town St., Suite 700, P.O. Box 1049, Columbus, Ohio 43216-1049 and 2) Ohio Environmental Protection Agency, Central District Office PO Box 1049 Columbus, OH 43216-1049.

The Ohio EPA permit number and public notice numbers should appear next to the above address on the envelope and on each page of any submitted comments. All comments received no later than 30 days after the date of this public notice will be considered.

Proposed Water Quality Based Effluent Limitations: This draft permit contains water quality based effluent limitation(s) (WQBELs). In accordance with Ohio Revised Code Section 6111.03(J)(3), the Director establishes WQBELs after considering, to the extent consistent with the Federal Water Pollution Control Act, evidence relating to the technical feasibility and economic reasonableness of removing the polluting properties from those wastes and to evidence relating to conditions calculated to result from that action and their relation to benefits to the people of the state and to accomplishment of the purposes of this chapter. This determination was made based on data and information available at the time the permit was drafted, which included the contents of the of the timely submitted National Pollutant Discharge Elimination System (NPDES) permit renewal application, along with any and all pertinent information available to the Director.

This public notice hereby allows the permittee to provide to the Director for consideration during this public comment period, additional site-specific pertinent and factual information with respect to the technical feasibility and economic reasonableness for achieving compliance with WQBEL(s). This information shall be submitted to the addresses listed above.

Should the applicant need additional time to review, obtain or develop site-specific pertinent and factual information with respect to the technical feasibility and economic reasonableness of achieving compliance with WQBEL(s), written notification for any additional time shall be sent no later than 30 days after the date of this public notice to the Director at the addresses listed above.

Should the applicant determine that compliance with a WQBEL is technically and/or economically unattainable, the permittee may submit an application for a variance to the applicable WQBEL in accordance with the terms and conditions set forth in Ohio Administrative Code (OAC) Rule 3745-1-38 no later than 30 days after the date of this public notice to the addresses listed above.

Alternately, the applicant may propose the development of site-specific water quality standard(s) pursuant to OAC Rule 3745-1-39. The permittee shall submit written notification to the Director regarding their intent to develop site-specific water quality standards for the pollutant at issue to the addresses listed above no later than 30 days after the date of this public notice.

The application, fact sheets, permit including effluent limitations, special conditions, comments received, and other documents are available for inspection and may be copied at a cost of 5 cents per page at the Ohio Environmental Protection Agency at the address shown on page one of this public notice any time between the hours of 8 a.m. and 4:30 p.m., Monday through Friday. Copies of the public notice are available at no charge at the same address. Individual NPDES draft permits that are in public notice are available on DSW's web site: <https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/list-of-draft-permit-public-notices>

Mailing lists are maintained for persons or groups who desire to receive public notice for all applications in the state or for certain geographical areas. Persons or groups may also request copies of fact sheets, applications, or other documents pertaining to specific applications. Persons or groups may have their names put on such a list by making a written request to the agency at the address shown above.

Ohio EPA Permit No.: 4PQ00008*AD
Application No: OH0151771

Action Date: TBD
Effective Date: TBD
Expiration Date: FIVE YEARS

DRAFT COPY
SUBJECT TO REVISION
OHIO EPA

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),

Mid-Ohio Water and Sewer District

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the Deer Creek WRF wastewater treatment works, located at 1685 Lafayette Plain City Road, London, Ohio, Madison County, to Deer Creek at River Mile 62.9 in accordance with the conditions specified in Part I, II, III, IV, V, and VI of this permit.

I have determined that a lowering of water quality in Deer Creek is necessary. In accordance with Ohio Administrative Code 3745-1-05, this decision was reached only after examining a series of technical alternatives, reviewing social and economic issues related to the degradation, and considering all public and appropriate intergovernmental comments.

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 required by the Ohio EPA no later than 180 days prior to the above date of expiration.

John Logue
Director

Total Pages: 55

PART I, A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: 4PQ00008001. 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	-	6.0	-	-	-	-	-	1/Day	Multiple Grab	All
00530 - Total Suspended Solids - mg/l	-	-	18	12	-	340	230	3/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1 / 2 Weeks	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	1.5	1.0	-	28	19	3/Week	24hr Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	4.5	3.0	-	85	57	3/Week	24hr Composite	Winter
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00640 - Nitrogen, Inorganic, Total - mg/l	-	-	-	5.7	-	-	110	1/Month	Calculated	All
00665 - Phosphorus, Total (P) - mg/l	-	-	-	0.7	-	-	13	1/Week	24hr Composite	All
00671 - Orthophosphate, Dissolved (as P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All

Effluent Characteristic	Discharge Limitations							Monitoring Requirements		
Parameter	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
01118 - Chromium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01220 - Chromium, Dissolved Hexavalent - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
31648 - E. coli - #/100 ml	-	-	284	126	-	-	-	3/Week	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
50092 - Mercury, Total (Low Level) - ng/l	-	-	-	-	-	-	-	1/Month	Grab	All
51173 - Cyanide, Free (Low-Level) - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Year	24hr Composite	August
61426 - Chronic Toxicity, Ceriodaphnia dubia - TUc	-	-	-	-	-	-	-	1/Year	24hr Composite	August
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Year	24hr Composite	August
61428 - Chronic Toxicity, Pimephales promelas - TUc	-	-	-	-	-	-	-	1/Year	24hr Composite	August
61941 - pH, Maximum - S.U.	9.0	-	-	-	-	-	-	1/Day	Multiple Grab	All
61942 - pH, Minimum - S.U.	-	6.5	-	-	-	-	-	1/Day	Multiple Grab	All
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1 / 2 Weeks	24hr Composite	All
80082 - CBOD 5 day - mg/l	-	-	15	10	-	280	190	3/Week	24hr Composite	All

Notes for Station Number 4PQ00008001:

* Effluent loadings based on average design flow of 5.0 MGD.

a. Pollutant tracking - See Part II, Item K.

- b. Free cyanide - See Part II, Item Q.
- c. Mercury - See Part II, Item R.
- d. Orthophosphate - See Part II, Item S.
- e. Toxicity Biomonitoring - See Part II, Item V.
- f. Total inorganic nitrogen shall be calculated as the sum of the concentration results for Nitrite Plus Nitrate (as N) and Nitrogen, Ammonia (NH₃-N).

PART I, B. SSO LIMITATIONS AND MONITORING REQUIREMENTS

1. SSO Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor at Station Number 4PQ00008300, 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	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	-	-	-	-	-	-	-	1/Month	Total	All

Notes for Station Number 4PQ00008300:

a. A sanitary sewer overflow is an overflow, spill, release, or diversion of wastewater from a sanitary sewer system. Although the above table indicates that the Measuring Frequency for Overflow Occurrence is 1/Month, the intent of that provision is to specify a reporting frequency for Overflow Occurrence, not a monitoring frequency. The monitoring requirement under this permit is that these overflows shall be monitored on each day when they discharge. Only sanitary sewer overflows that enter waters of the state, either directly or through a storm sewer or other conveyance, must be reported under this monitoring station.

b. 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 on Day 1 of the DMR. If there are no overflows during the entire month, report "zero" (0).

c. All sanitary sewer overflows are prohibited.

d. See Part II, Items D and E.

PART I, B. SEWAGE SLUDGE OR BIOSOLIDS LIMITATIONS AND MONITORING REQUIREMENTS

2. Biosolids Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final biosolids at Station Number 4PQ00008581, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS.

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			
00611 - Ammonia (NH3) In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	December
00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	December
00668 - Phosphorus, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	December
00938 - Potassium In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	December
01003 - Arsenic, Total In Sludge - mg/kg	75	-	-	-	-	-	-	1/Year	Composite	December
01028 - Cadmium, Total In Sludge - mg/kg	85	-	-	-	-	-	-	1/Year	Composite	December
01043 - Copper, Total In Sludge - mg/kg	4300	-	-	-	-	-	-	1/Year	Composite	December
01052 - Lead, Total In Sludge - mg/kg	840	-	-	-	-	-	-	1/Year	Composite	December
01068 - Nickel, Total In Sludge - mg/kg	420	-	-	-	-	-	-	1/Year	Composite	December
01093 - Zinc, Total In Sludge - mg/kg	7500	-	-	-	-	-	-	1/Year	Composite	December
01148 - Selenium, Total In Sludge - mg/kg	100	-	-	-	-	-	-	1/Year	Composite	December
51129 - Sludge Fee Weight - dry tons	-	-	-	-	-	-	-	1/Year	Total	December
51903 - Specific Oxygen Uptake Rate (SOUR), in Sludge - mg/hr/g	-	-	-	-	-	-	-	1/Year	Calculated	December
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	1/Year	Total	December
71921 - Mercury, Total In Sludge - mg/kg	57	-	-	-	-	-	-	1/Year	Composite	December
78465 - Molybdenum In Sludge - mg/kg	75	-	-	-	-	-	-	1/Year	Composite	December

Notes for Station Number 4PQ00008581:

- a. Monitoring data shall be reported on the December Discharge Monitoring Report (DMR). Monitoring shall be performed prior to biosolids being removed from the facility for beneficial use/land application. The monitoring data can be collected at any time during the reporting period. Annual monitoring reported in the December DMR does not have to occur in December. It is recommended that composite samples of the biosolids be collected at the end of the sewage sludge treatment process and analyzed close enough to the time of beneficial use to be reflective of the biosolids' current quality, but not so close that the results of the analysis are not available prior to land applying the biosolids.
- b. For biosolids disposed of by hauling to an authorized landfill or transferred to another NPDES permit holder, metal and nutrient analysis is not required.
- c. If no biosolids are removed from the facility during the reporting period and no metal and nutrient analysis is completed during the reporting period, select the "No Discharge" check box on the data entry form and PIN the eDMR. If no biosolids are removed from the facility during the reporting period and metal and nutrient analysis is completed during the reporting period enter the results for the metal and nutrient analysis on the DMR and report "0" for sludge weight and sludge fee weight.
- d. Each day when sewage sludge is removed from the treatment works for use or disposal, a representative composite sample of sewage sludge shall be collected and analyzed for percent total solids. This value of percent total solids shall be used to calculate the total Sewage Sludge Weight (Discharge Monitoring Report code 70316) and/or total Sewage Sludge Fee Weight (Discharge Monitoring Report code 51129) removed from the treatment plant on that day. For reporting purposes, report the average value attained during the reporting period.
- e. Units of mg/kg are on a dry weight basis.
- f. Sludge weight is a calculated total for the year. To convert from gallons of liquid sewage sludge to dry tons of sewage sludge: $\text{dry tons} = \text{gallons} \times 8.34 \text{ (lb/gallon)} \times 0.0005 \text{ (tons/lb)} \times \text{decimal fraction total solids}$.
- g. Sludge fee weight means sludge weight, in dry U.S. tons, excluding any admixtures such as liming material or bulking agents.
- h. See Part II, Items M, N, O, and P.

PART I, B. SEWAGE SLUDGE OR BIOSOLIDS LIMITATIONS AND MONITORING REQUIREMENTS

3. Sewage Sludge or Biosolids Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sewage sludge or biosolids at Station Number 4PQ00008586, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS.

Table - Sludge Monitoring - 586 – Final

Effluent Characteristic	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
51129 - Sludge Fee Weight - dry tons	-	-	-	-	-	-	-	1/Year	Total	December

Notes for Station Number 4PQ00008586:

a. Monitoring is required when sewage sludge is removed from the permittee's facility for disposal in a municipal solid waste landfill. The total Sludge Fee Weight of sewage sludge disposed of in a municipal solid waste landfill for the entire year shall be reported on the December Discharge Monitoring Report (DMR).

b. If no sewage sludge is removed from the permittee's facility for disposal in a municipal solid waste landfill during the year, select the "No Discharge" check box on the data entry form and PIN the DMR.

c. Sludge fee weight means sludge weight, in dry U.S. tons, excluding any admixtures such as liming material or bulking agents.

d. Each day when sewage sludge is removed from the treatment works for disposal, a representative composite sample of sewage sludge shall be collected and analyzed for percent total solids. This value of percent total solids shall be used to calculate the total Sewage Sludge Fee Weight (Discharge Monitoring Report code 51129) removed from the treatment plant on that day.

e. Sludge weight is a calculated total for the year. To convert from gallons of liquid sewage sludge to dry tons of sewage sludge: dry tons = gallons x 8.34 (lb/gallon) x 0.0005 (tons/lb) x decimal fraction total solids.

f. See Part II, Items M and N.

PART I, B. SEWAGE SLUDGE OR BIOSOLIDS LIMITATIONS AND MONITORING REQUIREMENTS

4. Sewage Sludge or Biosolids Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sewage sludge or biosolids at Station Number 4PQ00008588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS.

Table - Sludge Monitoring - 588 – Final

Effluent Characteristic	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/Year	Total	December

Notes for Station Number 4PQ00008588:

- Monitoring is required when sewage sludge is removed from the permittee's facility for transfer to another NPDES permit holder. The total sludge weight transferred to another NPDES permit holder for the entire year shall be reported on the December Discharge Monitoring Report (DMR).
- If no sewage sludge is removed from the permittee's facility for transfer to another NPDES permit holder during the year, select the "No Discharge" check box on the data entry form and PIN the DMR.
- Sludge weight is a calculated total for the year. To convert from gallons of liquid sewage sludge to dry tons of sewage sludge: dry tons = gallons x 8.34 (lb/gallon) x 0.0005 (tons/lb) x decimal fraction total solids.
- Each day when sewage sludge is removed from the treatment works for disposal, a representative composite sample of sewage sludge shall be collected and analyzed for percent total solids. This value of percent total solids shall be used to calculate the total Sewage Sludge Weight (Discharge Monitoring Report code 70316) removed from the treatment plant on that day.
- See Part II, Items M and N.

PART I, B. INFLUENT MONITORING REQUIREMENTS

5. Influent Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' influent wastewater at Station Number 4PQ00008601, 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	24hr Composite	All
61941 - pH, Maximum - S.U.	-	-	-	-	-	-	-	1/Day	Multiple Grab	All
61942 - pH, Minimum - S.U.	-	-	-	-	-	-	-	1/Day	Multiple Grab	All
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	3/Week	24hr Composite	All

Notes for Station Number 4PQ00008601:

- a. Sampling for the respective/common parameters shall occur on the same day as Outfall 4PQ00008001.

PART I, B. UPSTREAM MONITORING REQUIREMENTS

6. Upstream Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 4PQ00008801, 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			
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
31648 - E. coli - #/100 ml	-	-	-	-	-	-	-	1 / 2 Weeks	Grab	June - Aug
61432 - 48-Hr. Acute Toxicity Ceriodaphnia dubia - % Affected	-	-	-	-	-	-	-	1/Year	Grab	August
61435 - 96-Hr. Acute Toxicity Pimephales promela - % Affected	-	-	-	-	-	-	-	1/Year	Grab	August
61438 - 7-Day Chronic Toxicity Ceriodaphnia dubia - % Affected	-	-	-	-	-	-	-	1/Year	Grab	August
61441 - 7-Day Chronic Toxicity Pimephales promelas - % Affected	-	-	-	-	-	-	-	1/Year	Grab	August

Notes for Station Number 4PQ00008801:

- a. Sampling for the respective/common parameters shall occur on the same day as Outfall 4PQ00008001.
- b. Toxicity Biomonitoring - see Part II, Item V.

Part I, B. DOWNSTREAM-NEARFIELD MONITORING REQUIREMENTS

7. Downstream-Nearfield Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, downstream of the point of discharge, at Station Number 4PQ00008901, 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
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00900 - Hardness, Total (CaCO3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
31648 - E. coli - #/100 ml	-	-	-	-	-	-	-	1 / 2 Weeks	Grab	June - Aug

Notes for Station 4PQ00008901:

a. Sampling for the respective/common parameters shall occur on the same day as Outfall 4PQ00008001.

PART II - OTHER REQUIREMENTS

A. Operator Certification Requirements

1. Classification

- a. In accordance with Ohio Administrative Code 3745-7-04, the sewage treatment facility shall be classified as a Class IV treatment works. The permittee shall designate one or more professional operator of record to oversee the technical operation of the treatment works with a valid certification of a class equal to or greater than the classification of the treatment works.
- b. All sewerage (collection) systems that are tributary to this treatment works are Class II sewerage systems in accordance with paragraph (B)(1)(b) of rule 3745-7-04 of the Ohio Administrative Code. The permittee shall designate one or more professional operator of record to oversee the technical operation of the sewerage (collection) system with a valid certification of a class equal to or greater than the classification of the sewerage (collection) system.

2. Professional Operator of Record

- a. Within three days of a change in a professional operator of record, the permittee shall notify the Director of the Ohio EPA of any such change on a form acceptable to Ohio EPA. The notification must be submitted electronically to opcert@epa.ohio.gov. The appropriate form can be found at the following website:
https://dam.assets.ohio.gov/image/upload/epa.ohio.gov/Portals/28/documents/opcert/Operator_of_Record_Notification_Form.pdf
- b. All applications for renewal of this NPDES permit shall include an updated Operator of Record Notification form along with other necessary forms and fees to be considered a complete application.
- c. The professional operator of record for a Class II, III, or IV treatment works or Class II sewerage system may be replaced by a backup professional operator with a certificate one classification lower than the treatment works or sewerage system for a period of up to thirty consecutive days. The use of this provision does not require notification to the agency. This provision may not be used to routinely circumvent minimum staffing requirements.
- d. Upon proper justification, such as military leave or long term illness, the director may authorize the replacement of the professional operator of record for a class II, III, or IV treatment works or class II sewerage system by a backup professional operator with a certificate one classification lower than the facility for a period of greater than thirty consecutive days. Such requests shall be made in writing to the appropriate district office.

3. Minimum Staffing Requirements

- a. The permittee shall ensure that the treatment works professional operator of record is physically present at the facility in accordance with the minimum staffing requirements per paragraphs (C)(1) and (C)(3)(j-k) of rule 3745-7-04 of the Ohio Administrative Code or the requirements from an approved 3745-7-04(C) minimum staffing hour reduction plan.
- b. The permittee shall ensure that the collection system professional operator of record or a professional operator that is certified in the field of wastewater collection or wastewater treatment, class A operators excluded, is physically present at the collection system in accordance with the minimum staffing

requirements per paragraphs (C)(2) and (C)(3)(j) of rule 3745-7-04 of the Ohio Administrative Code.

c. If Ohio EPA approves a reduction in minimum staffing requirements based upon a facility operating plan, any change in the criteria under which the operating plan was approved (e.g., retirement of a professional operator listed in the approved staffing plan, loss of the professional operator of record, reduction in the workforce, removal or failure of automation or continuous monitoring, etc.) will require that the treatment works immediately return to the minimum staffing requirements included in paragraph (C)(1) of rule 3745-7-04 of the Ohio Administrative Code.

4. Additional Staffing Requirements

Visits to all treatment works shall be performed by the permittee, the permittee's representative, or agent five days a week and noted in the operational and maintenance records required by rule 3745-7-09 of the Administrative Code. Visits shall not be necessary when the treatment works is not in operation.

B. Description of the location of the required sampling stations are as follows:

Sampling Station	Description of Location
4PQ00008001	Final effluent, prior to discharge to Deer Creek (Lat/Long: 39.9476 N, 83.4179 W)
4PQ00008300	Collection system sanitary sewer overflows
4PQ00008581	Beneficial use of Class B biosolids
4PQ00008586	Disposal of sewage sludge or biosolids in an authorized landfill
4PQ00008588	Transfer of sewage sludge or biosolids to another NPDES permittee
4PQ00008601	Influent monitoring
4PQ00008801	Upstream monitoring
4PQ00008901	Downstream monitoring

C. Subject to the terms and conditions of this permit, the permittee is authorized to discharge from the following outfalls and/or monitoring stations that are limited to stormwater associated with industrial activity. See Parts IV, V, and VI for monitoring and reporting requirements.

Sampling Station	Description of Location
4PQ00008101	Stormwater pond outlet to ditch tributary to Glade Run (Lat/Long: 39.9558 N, 83.3802 W)

D. 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.

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 24 hours 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, overflows that expose the general public to contact with raw sewage, 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.

An acceptable 5-day follow-up written report can be filled-in or downloaded from the Ohio EPA Division of Surface Water Permits Program Technical Assistance Web page at:

<https://epa.ohio.gov/divisions-and-offices/surface-water/guides-manuals/permits-program-technical-assistance>

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

a) Discharge Monitoring Reports (DMR)

Sanitary sewer overflows that enter waters of the state, either directly or through a storm sewer or other conveyance, shall be reported on your Discharge Monitoring Reports (DMR). 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 your eDMR 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. Only WIBs caused by a problem in the publicly-owned collection system must be included.

Not later than March 31 of each year, you must submit one copy of the annual report for the previous calendar year. The report must be submitted electronically using the NPDES Annual Sanitary Sewer Overflow Report in the STREAMS application, available through the Ohio EPA eBusiness Center, Division of Surface Water NPDES Permit Applications service.

You also must provide adequate notice to the public of the availability of the report. Adequate public notice would include: notices posted at the community administration building, the public library and the post office; a public notice in the newspaper; or a notice sent out with all sewer bills.

E. 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.

F. All parameters, except flow, and any other continuously-recorded parameters, 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.

G. Composite samples shall be comprised of a series of grab samples collected over a 24-hour period and proportionate in volume to the sewage flow rate at the time of sampling. Such samples shall be collected at such times and locations, and in such a fashion, as to be representative of the facility's overall performance.

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

I. 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.

J. The treatment works must obtain at least 85 percent removal of carbonaceous biochemical oxygen demand (five-day) and suspended solids (see Part III, Item A).

K. Parameter Tracking

A preliminary effluent limit (PEL) has been provided below for parameters with a projected effluent

quality (PEQ) equal to or exceeding seventy-five percent of the PEL. In accordance with OAC 3745-33-07(A)(2), the permittee must report to Ohio EPA Central District Office, in writing, any effluent concentration analytical result greater than the PEL values listed below. Written notification must be submitted within 30 days of an effluent concentration analytical result that exceeds the PEL and must detail the reasons why the PEL was exceeded, and whether additional results above the PEL are expected.

Parameter	PELavg	PELmax
Cadmium	6	15
Chromium	216	4418
Chromium, Hexavalent	12	17
Copper	24	39
Cyanide, Free	13	50
Lead	25	474
Mercury	12	1700
Nickel	132	1185
Total Filterable Residue	1617	--
Zinc	--	302

The permittee shall reduce the discharge levels to below the PEL if either of the following conditions are met:

1. The maximum detected concentration per month is greater than the maximum PEL for four or more months during any consecutive six-month period; or
2. The thirty-day average is greater than the average PEL for two or more months during any consecutive six-month period.

If the permittee cannot reduce discharge levels below the PEL within six months after either of conditions 1 or 2 above are met, the permittee may request to modify the permit to contain a compliance schedule. This request shall contain justification for the additional time necessary to reduce discharge levels.

L. Water quality-based effluent limits (WQBELs) in this permit may be revised based on updated wasteload allocations or use designation rules. This permit may be modified, or revoked and reissued, to include new WQBELs or other conditions that are necessary to comply with a revised wasteload allocation or approved Total Maximum Daily Load (TMDL) report, as required under Section 303(d) of the Clean Water Act.

M. All treatment, storage, transfer or disposal of sewage sludge or biosolids, or beneficial use of biosolids, by the permittee shall comply with Chapter 6111. of the Ohio Revised Code, Chapter 3745-40 of the Ohio Administrative Code, any further requirements specified in this NPDES permit, and any other actions of the Director that pertain to the treatment, storage, transfer or disposal of sewage sludge or biosolids, or beneficial use of biosolids by the permittee.

N. No later than March 1st of each calendar year, the permittee shall submit a report summarizing the sewage sludge disposal, use, storage, or treatment activities of the permittee during the previous calendar year. The report shall be submitted through Ohio EPA eBusiness Center, Division of Surface Water NPDES Permit Application service.

O. The permittee shall maintain standard operating procedures for how pathogen reduction and vector attraction reduction are achieved, in accordance with 3745-40-09 of the Ohio Administrative Code.

P. A sampling plan shall be maintained by the permittee. The plan shall include, at a minimum, the following for all required sampling:

- a. Sample collection or monitoring locations.
- b. Sample or monitoring frequency.
- c. Sample collection or monitoring procedures.
- d. Sample storage and preservation procedures.
- e. For composite samples of biosolids, a minimum of six grab samples collected at such times and locations, and in such fashion, as to be representative of the biosolids generated at the facility for beneficial use.

Q. Monitoring for Low Level Free Cyanide

The permittee shall use an approved method for free cyanide listed in 40 CFR 136 that has a quantification level lower than water quality-based effluent limits: ASTM D7237-18(A), OIA-1677-09, SM 4500-CN-R-2021, and ASTM D4282-15.

R. Monitoring for Mercury (low level)

The permittee shall use either EPA Method 1631 or EPA Method 245.7 promulgated under 40 CFR 136 to comply with the influent and effluent mercury monitoring requirements of this permit.

S. Monitoring for Dissolved Orthophosphate (as P)

The permittee shall monitor for dissolved orthophosphate by grab sample. The permittee shall filter the grab sample within 15 minutes of collection using a 0.45 micron filter. The filtered sample must be analyzed within 48 hours. Samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's overall performance.

T. Outfall Signage

Prior to commencing discharge, the permittee shall post a permanent marker on the stream bank at each outfall that is regulated under this NPDES permit. This includes final outfalls, bypasses, and combined sewer overflows. The sign shall include, at a minimum, the name of the establishment to which the permit was issued, the Ohio EPA permit number, and the outfall number and a contact telephone number. The information shall be printed in letters not less than two inches in height. The sign shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall not be obstructed such that persons in boats or persons swimming on the river or someone fishing or walking along the shore cannot read the sign. Vegetation shall be periodically removed to keep the sign visible. If the outfall is normally submerged the sign shall indicate that. When an existing sign is replaced or reset, the new sign shall comply with the requirements of this section.

U. NPDES Application Supplemental Data Requirements

- a. Pursuant to 40 CFR Part 122.21, the permittee must sample and analyze for a list of 101 parameters, including hardness, metals, volatile organic compounds (VOCs), acid-extractable compounds, and base-neutral compounds, as part of the next NPDES permit renewal application. The permittee must provide effluent data from a minimum of three samples taken within four and one-half years prior to the date of the permit application. The complete list of parameters is contained in Table 2 of "Appendix J to Part 122 - NPDES Permit Testing Requirements for Publicly Owned Treatment Works" (40 CFR Part 122.21(j)).

b. The permittee must collect effluent samples and analyze for pollutants in accordance with analytical methods approved under 40 CFR Part 136, unless an alternative is specified in the existing NPDES permit. Except for specified pollutants (e.g. VOCs and free cyanide), 24-hour composite samples must be used. Samples must be representative of any seasonal variation in the discharge. Existing data may be used, if available, in lieu of sampling done solely for the purpose of the application.

c. The permittee shall use sufficiently sensitive analytical methods that are capable of detecting and measuring pollutants at or below the respective water quality criteria or existing permit effluent limits.

d. The required analytical data shall be submitted on a form approved by the Director of Ohio EPA.

V. Biomonitoring Program Requirements

Upon commencement of discharge, the permittee shall initiate an effluent biomonitoring program to determine the toxicity of the effluent from outfall 4PQ00008001.

General Requirements

All toxicity testing conducted as required by this permit shall be done in accordance with "Reporting and Testing Guidance for Biomonitoring Required by the Ohio Environmental Protection Agency" (hereinafter, the "biomonitoring guidance"), Ohio EPA, July 1998 (or current revision). The Standard Operating Procedures (SOP) or verification of SOP submittal, as described in Section 1.B. of the biomonitoring guidance shall be submitted no later than three months after the effective date of this permit. If the laboratory performing the testing has modified its protocols, a new SOP is required.

Testing Requirements

1. Chronic Bioassays

The permittee shall conduct chronic toxicity tests, as specified in Part I,A, using water fleas (*Ceriodaphnia dubia*) and fathead minnows (*Pimephales promelas*) on effluent samples from outfall 4PQ00008001. These tests shall be conducted as specified in Section 3 of the biomonitoring guidance.

2. Acute Bioassays

The permittee shall conduct definitive acute toxicity tests, as specified in Part I,A, using water fleas (*Ceriodaphnia dubia*) and fathead minnows (*Pimephales promelas*) on effluent samples from outfall 4PQ00008001. These tests shall be conducted as specified in Section 2 of the biomonitoring guidance. Acute toxicity tests need not be performed for months in which chronic toxicity tests are conducted. Acute endpoints, as described in Section 2.H. of the biomonitoring guidance, shall be derived from the chronic test.

3. Testing of Ambient Water

In conjunction with the acute and chronic effluent toxicity tests, upstream control water shall be collected at a point outside the zone of effluent and receiving water interaction at station 4PQ00008801. Testing of ambient waters shall be done in accordance with Sections 2 and 3 of the biomonitoring guidance.

4. Data Review

a. Reporting

Following completion of each bioassay requirement, the permittee shall report results of the tests in accordance with Sections 2.H.1., 2.H.2.a., 3.H.1., and 3.H.2.a. of the biomonitoring guidance, including reporting the results on the monthly DMR and submitting a copy of the complete test report to Ohio EPA, Division of Surface Water. The test report may be submitted electronically using the acute or chronic NPDES Biomonitoring Report Form in STREAMS, which is accessible through the Ohio EPA eBusiness Center.

Based on Ohio EPA's evaluation of the results, this permit may be modified to require additional biomonitoring, require a toxicity reduction evaluation, and/or contain whole effluent toxicity limits.

b. Definitions

$TU_a = \text{Acute Toxicity Units} = 100/LC_{50}$

$TU_c = \text{Chronic Toxicity Units} = 100/IC_{25}$

This equation for chronic toxicity units applies outside the mixing zone for warmwater, modified warmwater, exceptional warmwater, coldwater, and seasonal salmonid use designations except when the following equation is more restrictive (*Ceriodaphnia dubia* only):

$TU_c = \text{Chronic Toxic Units} = 100/\text{square root of } (NOEC \times LOEC)$

PART III - GENERAL CONDITIONS

A. Definitions

"#/100 ml" means the number of bacteria per 100 milliliters of sample.

"MGD" means million gallons per day.

"mg/l" means milligrams per liter.

"ug/l" means micrograms per liter.

"ng/l" means nanograms per liter.

"S.U." means standard pH unit.

"kg/day" means kilograms per day.

"85 percent removal" means the arithmetic mean of the values for effluent samples collected in a period of 30 consecutive days shall not exceed 15 percent of the arithmetic mean of the values for influent samples collected at approximately the same times during the same period.

"Act" means the federal Water Pollution Control Act (commonly referred to as the "Clean Water Act" or "CWA"), 33 U.S.C. sections 1251 to 1387 as amended through November 27, 2023.

"Biosolids" means sewage sludge or mixtures containing sewage sludge that have been treated for beneficial use.

"Bypass" means the intentional diversion of waste streams from any portion of the treatment facility.

"CFR" means the Code of Federal Regulations as published in the Federal Register.

"Critical value" means the most extreme result of multiple grab sampling or continuous monitoring in a 24-hour period. For parameters with a maximum limit, the critical value is the highest result. For parameters with a minimum limit, the critical value is the lowest result.

"Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

"DMR" means Ohio EPA Discharge Monitoring Report (DMR) form.

"eBusiness Center" (also known as "eBiz") means the Ohio EPA Division of Surface Water Electronic Business Center, an online platform for submission of data, applications, reports, fee payments, etc. The eBusiness Center is available at: <https://ebiz.epa.ohio.gov>. Guidance and instructions for access and completing tasks in the eBusiness Center are available at: <https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/electronic-business-services>

"e-DMR" means electronic Discharge Monitoring Report, an online platform for reporting required

monitoring data. e-DMR is accessible through the Ohio EPA eBusiness Center.

"Maximum limitations" means compliance with limitations having descriptions of "maximum" shall be determined from any single value for effluent samples and/or measurements collected.

"Minimum limitations" means compliance with limitations having descriptions of "minimum" shall be determined from any single value for effluent samples and/or measurements collected.

"Monthly discharge limitation" means the highest allowable arithmetic average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. Compliance with fecal coliform bacteria or E. coli bacteria limitations shall be determined using the geometric mean.

"Net concentration" shall mean the difference between the concentration of a given substance in a sample taken of the discharge and the concentration of the same substances in a sample taken at the intake which supplies water to the given process. For the purpose of this definition, samples that are taken to determine the net concentration shall always be 24-hour composite samples made up of at least six aliquots taken at regular intervals throughout the 24-hour period.

"Net load" shall mean the difference between the load of a given substance as calculated from a sample taken of the discharge and the load of the same substance in a sample taken at the intake which supplies water to given process. For purposes of this definition, samples that are taken to determine the net loading shall always be 24-hour composite samples made up of at least six increments taken at regular aliquots throughout the 24-hour period.

"OAC" means the Ohio Administrative Code.

"ORC" means the Ohio Revised Code.

"Quarterly (1/Quarter) sampling frequency" means the sampling shall be done in the months of March, June, August, and December, unless specifically identified otherwise in the effluent limitations and monitoring requirements table.

"Quarterly-Alt (1/Quarter) sampling frequency" means the sampling shall be done in the months of March, June, September, and December, unless specifically identified otherwise in the effluent limitations and monitoring requirements table.

"Reporting code" is a five-digit number used by the Ohio EPA to standardize the processing of reported data. The reporting code does not imply the type of analysis used nor the sampling techniques employed.

"Semi-annual (2/Year) sampling frequency" means the sampling shall be done during the months of June and December, unless specifically identified otherwise.

"Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

"Sewage sludge" means a solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works as defined in ORC 6111.01. Sewage sludge includes, but is not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment processes. "Sewage

sludge" does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator, grit and screenings generated during preliminary treatment of domestic sewage in a treatment works, animal manure, residue generated during treatment of animal manure, or domestic septage.

"Sewage sludge fee weight" means the weight of sewage sludge, in dry U.S. tons, excluding admixtures such as liming materials or bulking agents. Annual sewage sludge fees, as per ORC 3745.11(X), are based on the reported sludge fee weight for the most recent calendar year.

"Sewage sludge weight" means the weight of sewage sludge, in dry U.S. tons, including admixtures such as liming materials or bulking agents. Monitoring frequencies for sewage sludge parameters are based on the reported sewage sludge weight generated in a calendar year (use the most recent calendar year data when the NPDES permit is up for renewal).

"STREAMS" means the Surface Water Tracking, Reporting, and Electronic Application Management System, an online application for submission of reports, applications, and other required forms, which is available through the eBusiness Center.

"Summer" means the period from May 1 through October 31.

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

"Weekly discharge limitation" means the highest allowable arithmetic average of daily discharges over a calendar week as defined in this section, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. Each of the following 7-day periods is defined as a calendar week: Week 1 is Days 1 - 7 of the month; Week 2 is Days 8 - 14; Week 3 is Days 15 - 21; and Week 4 is Days 22 - 28. If the daily discharge on days 29, 30 or 31 exceeds the "weekly discharge limitation", Ohio EPA may elect to evaluate the last 7 days of the month as Week 4 instead of Days 22 - 28. Compliance with fecal coliform bacteria or E. coli bacteria limitations shall be determined using the geometric mean.

"Winter" means the period from November 1 through April 30.

"Yearly (1/Year) sampling frequency" means the sampling shall be done in the month of September, unless specifically identified otherwise in the effluent limitations and monitoring requirements table.

B. Reserved

C. Facility Operation and Quality Control

All wastewater treatment works shall be operated in a manner consistent with the following:

1. At all times, the permittee maintains in good working order and operates as efficiently as possible all treatment or control facilities or systems installed or used by the permittee necessary to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with conditions of the permit.

2. The permittee effectively monitors the operation and efficiency of treatment and control facilities and the quantity and quality of the treated discharge.
3. Maintenance of wastewater treatment works that results in degradation of effluent quality shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by Ohio EPA as specified in Part III, Item M.

D. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of ORC 6111.07(A) and the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit application.

E. Duty to Reapply

To continue the permitted activity, the permittee shall submit a complete renewal application, on a form provided by the Director, no later than 180 days prior to the expiration date of the permit. An expired permit continues in force and effect until the Director acts on a timely renewal application.

F. Reporting

1. All reports required by this permit shall be signed by a facility's Responsible Official or a Delegated Responsible Official (i.e. a person delegated by the Responsible Official). The Responsible Official of a facility is defined as:
 - a. In the case of a corporation, by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - i. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - ii. The manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - b. In the case of a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
 - c. In the case of a municipal, state, or other public facility, by either the principal executive officer, the ranking elected official or other duly authorized representative. A person is a duly authorized representative only if:
 - i. The authorization is made in writing by a person described in OAC 3745-33-03(F).
 - ii. The authorization specifies either an individual or a position having responsibility for the overall

operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

2. Monitoring data required by this permit shall be submitted on a monthly frequency using Ohio EPA Discharge Monitoring Report (DMR) forms and submitted through the e-DMR platform, which is accessible through the Ohio EPA eBusiness Center.

Delegated Responsible Officials must be delegated by the Responsible Official using the eBusiness Center's delegation function. For e-DMR, any person signing and submitting the DMR must have an eBusiness Center account and Personal Identification Number (PIN). More information on e-DMR submission or the PIN and delegation processes, please view the following web page:
<https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/electronic-business-services>

3. DMRs shall be submitted to Ohio EPA by the 20th day of the month following the month-of-interest.

4. If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in Part III, Item G, the results of such monitoring shall be included in the calculation and reporting of the values required in the reports specified above.

5. Analyses of pollutants not required by this permit, except as noted in the preceding paragraph, shall not be reported to the Ohio EPA, but records shall be retained as specified in Part III, Item I.

G. Sampling and Analytical Method

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored activity. Test procedures for the analysis of pollutants shall conform to 40 CFR 136, "Test Procedures for the Analysis of Pollutants" (unless other test procedures have been specified in this permit) or 40 CFR subchapters N or O. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

2. The permittee shall use test procedures from the methods cited above that are sufficiently sensitive for the pollutant parameter being analyzed. Methods are sufficiently sensitive when any of the following conditions are met:

a. The method quantification level (QL) is at or below the level of the applicable water quality criterion for the measured pollutant or pollutant parameter;

b. The method QL is above the applicable water quality criterion, but the amount of pollutant or pollutant parameter in the permittee's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or

c. The method has the lowest QL of the analytical methods approved under 40 CFR 136 or required under 40 CFR subchapter N or O for the measured pollutant or pollutant parameter.

H. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall

record the following information:

1. The date, time, and precise location of sampling or measurements;
2. The person(s) who performed the sampling or measurements;
3. The date(s) the analyses were performed on those samples;
4. The person(s) who performed the analyses;
5. The analytical techniques or methods used; and
6. The results of all analyses and measurements.

I. Records Retention

The permittee shall retain all of the following records for the wastewater treatment works for a minimum of three years except those records that pertain to the treatment, storage, transfer, or disposal, and the beneficial use of biosolids, which shall be kept for a minimum of five years (or longer as required by 40 CFR Part 503), including:

1. All sampling and analytical records (including internal sampling data not reported);
2. All original recordings for any continuous monitoring instrumentation;
3. All instrumentation, calibration and maintenance records;
4. All treatment works operation and maintenance records;
5. All reports required by this permit; and
6. Records of all data used to complete the application for this permit for a period of at least three years, or five years for sewage sludge or biosolids, from the date of the sample, measurement, report, or application.
7. All records associated with professional operators shall be maintained in accordance with OAC 3745-7-09.

These periods will be extended during the course of any unresolved litigation, or when requested by the Regional Administrator or the Ohio EPA. The three-year period, or five-year period for sewage sludge or biosolids, for retention of records shall start from the date of sample, measurement, report, or application.

J. Availability of Reports

Except for data determined by the Ohio EPA to be entitled to confidential status, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate district offices of the Ohio EPA. Both the Clean Water Act and ORC 6111.05 state that effluent data and receiving water quality data shall not be considered confidential.

K. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking, reissuing, or terminating the permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be maintained by this permit.

L. Right of Entry

The permittee shall allow the Director or any representative authorized by the Director upon presentation of credentials and other documents as may be required by law to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

M. Unauthorized Discharges

1. Bypass Not Exceeding Limitations - The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Part III, Items M.2 and M.3.

2. Notice

a. Unanticipated Bypass - The permittee shall submit notice as required in Part III, Item N.3.

b. Anticipated Bypass - The permittee shall submit notice as required in Part III, Item N.5.

3. Prohibition of Bypass

a. Bypass is prohibited and the Director may take enforcement action against a permittee for a bypass, unless:

- i. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- iii. The permittee submitted notices as required under Part III, Item M.2.

b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part III, Item M.3.a.

N. Noncompliance Notification

1. Spills or Discharges that may Endanger Human Health or the Environment

a. Any spill or discharge (other than an SSO) that may endanger human health or the environment must be reported within thirty (30) minutes of discovery by calling the Ohio EPA 24-Hour Emergency Hotline toll-free at (800) 282-9378. The permittee must also, within twenty-four (24) hours, complete a 24 Hour Spill Notification report, available in and submitted to STREAMS through the eBusiness Center.

b. Any sanitary sewer overflow (SSO) that may endanger human health or the environment must be reported within twenty-four (24) hours by calling the Ohio EPA Emergency Hotline toll-free at (800) 282-9378, and calling the local Board of Health. The permittee must also complete a SSO - 5 Day Notification report, available in and submitted to STREAMS through the eBusiness Center.

c. The permittee shall include the following information in the telephone noncompliance report:

- i. The name of the permittee, and a contact name and telephone number;
- ii. The time(s) at which the discharge occurred, and was discovered;
- iii. The approximate amount and the characteristics of the discharge;
- iv. The stream(s) affected by the discharge;
- v. The circumstances which created the discharge, and a name and telephone number of the person(s) who have knowledge of these circumstances;
- vi. What remedial steps taken or planned, and a name and telephone number of the person(s) responsible for such remedial steps;
- vii. If the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- viii. If applicable, the type of event (combined sewer overflows, sanitary sewer overflows, or bypass events), type of sewer overflow structure (e.g., manhole, combine sewer overflow outfall), discharge volumes untreated by the treatment works treating domestic sewage, types of human health and environmental impacts of the sewer overflow event, and whether the noncompliance was related to wet weather.

2. Exceedance of a Daily Maximum Discharge Limit

The exceedance of a daily maximum discharge limit for any of the pollutants listed in the permit shall be reported within twenty-four (24) hours of discovery by submitting a Daily Max Limit Exceedance report, available in and shall be submitted to STREAMS through the Ohio EPA eBusiness Center.

3. Limit Exceedance due to Unanticipated Bypass

The exceedance of any discharge limit for any of the pollutants listed in the permit that is the result of an unanticipated bypass shall be reported within twenty-four (24) hours of discovery. The occurrence of an unanticipated bypass that does not result in exceedance of a discharge limit shall be reported at the time monitoring reports are submitted. In either instance, notification shall be provided by submitting an Unanticipated Bypass Notification report, available in and shall be submitted to STREAMS through the Ohio EPA eBusiness Center.

4. Limit Exceedance due to Upset

The exceedance of any discharge limit for any of the pollutants listed in the permit that is the result of an upset shall be reported within twenty-four (24) hours of discovery. The occurrence of an upset that does not result in exceedance of a discharge limit shall be reported at the time monitoring reports are submitted. In either instance, notification shall be provided by submitting an Upset Notification Report, available in and shall be submitted to STREAMS through the Ohio EPA eBusiness Center.

5. Anticipated Bypass

If the permittee knows in advance of the need for a bypass, the permittee shall, whenever possible, provide notification at least ten (10) days beforehand by submitting an Anticipated Bypass Report, which is available in and shall be submitted to STREAMS through the eBusiness Center.

6. Noncompliance with Part I,C Schedule of Compliance Event

If the permittee is unable to meet any date for achieving a compliance event, as specified in Part I,C, notification shall be provided by submitting a Permit Compliance Schedule Update report, available in and shall be submitted to STREAMS through the Ohio EPA eBusiness Center, within fourteen (14) days of becoming aware of such a situation. The notification shall include the following:

- a. The Schedule of Compliance event which has been or will be violated;
- b. The cause of the violation;
- c. The remedial action being taken;
- d. The probable date by which compliance will occur; and
- e. The probability of complying with subsequent and final events as scheduled.

7. All other permit violations

The permittee shall electronically report all other instances of noncompliance that are not covered by reports required in Items N.1 through N.6 at the time monitoring reports are submitted, by submitting a Noncompliance (Miscellaneous) report, which is available in and shall be submitted to STREAMS through the eBusiness Center.

O. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, biosolids beneficial use, or sewage sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

P. Authorized Discharges

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such violations may result in the imposition of civil and/or criminal penalties as provided for in CWA Section 309, 40 CFR 122.41(a), and ORC 6111.09 and 6111.99.

Q. Discharge Changes

The following changes must be reported to the appropriate Ohio EPA district office as soon as practicable:

1. For all treatment works, any significant change in character of the discharge which the permittee knows or has reason to believe has occurred or will occur which would constitute cause for modification or revocation and reissuance of this permit. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Notification of permit changes or anticipated noncompliance does not stay any permit condition.

2. For publicly owned treatment works (POTW):

a. Any proposed plant modification, addition, and/or expansion that will change the capacity or efficiency of the plant;

b. The addition of any new pollutants into the POTW from an indirect discharger which would be subject to CWA Sections 301 or 306 if it were directly discharging those pollutants; and

c. Changes in the quantity or quality of the wastes from existing tributary industrial discharges which will result in significant new or increased discharges of pollutants.

d. Notice in Part III, Item Q.2 shall include the following:

i. The name of the permittee, a contact name, an email address, and telephone number;

ii. The relevant change(s) outlined in Part III, Items Q.2.a, Q.2.b, or Q.2.c;

iii. The quality and quantity of effluent introduced into POTW;

iv. Any anticipated impact of the change(s) on the quantity or quality of effluent to be discharged.

3. For non-publicly owned treatment works, any proposed facility expansions, production increases, or process modifications, which will result in new, different, or increased discharges of pollutants.

Following this notice, modifications to the permit may be made to reflect any necessary changes in permit conditions, including any necessary effluent limitations for any pollutants not identified and limited herein. ORC 6111.44 and 6111.45 require that plans for treatment works or improvements to such works be approved by the Director of the Ohio EPA prior to initiation of construction.

4. In addition to the reporting requirements under 40 CFR 122.41(l) and per 40 CFR 122.42(a), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis of any toxic pollutant which is not limited in the permit. If that discharge will exceed the highest of the "notification levels" specified in 40 CFR 122.42(a)(1)(i) through 122.42(a)(1)(iv).

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" specified in 40 CFR 122.42(a)(2)(i) through 122.42(a)(2)(iv).

R. Toxic Pollutants

The permittee shall comply with effluent standards or prohibitions established under CWA Section 307(a) for toxic pollutants and with standards for sewage sludge use or disposal established under CWA Section 405(d) within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate

the requirement. Following establishment of such standards or prohibitions, the Director shall modify this permit and so notify the permittee.

S. Permit Modification or Revocation

1. After notice and opportunity for a hearing, this permit may be modified or revoked, by the Ohio EPA, in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. Change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

2. Pursuant to OAC 3745-33-04, the permittee may at any time apply to the Ohio EPA for modification of any part of this permit. The filing of a request by the permittee for a permit modification or revocation does not stay any permit condition. The application for modification should be received at least ninety days before the date on which it is desired that the modification become effective. Application forms are available and shall be submitted through STREAMS, available in the Ohio EPA eBusiness Center.

T. Transfer of Ownership or Control

This permit cannot be transferred or assigned, nor shall a new owner or successor be authorized to discharge from this facility until the following requirements are met:

- 1. No later than 60 days prior to the date of the transfer, the applicant shall submit a complete and acceptable application for permit transfer. Failure to complete the application and follow the associated instructions may result in the application being returned to the applicant. The transfer application is available in and shall be submitted through STREAMS, available on the Ohio EPA eBusiness Center
- 2. At any time during the sixty (60) day period between notification of the proposed transfer and the effective date of the transfer, the Director may prevent the transfer if he concludes that such transfer will jeopardize compliance with the terms and conditions of the permit. If the Director does not prevent transfer, the permit will be modified to reflect the new owner.

U. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under CWA Section 311.

V. Solids Disposal

Collected grit and screenings, and other solids other than sewage sludge or biosolids, shall be disposed of in such a manner as to prevent entry of those wastes into waters of the state, and in accordance with all applicable laws and rules.

W. Construction Affecting Navigable Waters

This permit does not authorize or approve the construction of any onshore or offshore physical structures

or facilities or the undertaking of any work in any navigable waters.

X. Civil and Criminal Liability

Except as exempted in the permit conditions on UNAUTHORIZED DISCHARGES or UPSETS, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

Y. State Laws and Regulations

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by CWA Section 510.

Z. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AA. Upset

The provisions of 40 CFR 122.41(n), relating to "Upset," are incorporated herein by reference in their entirety. For definition of "upset," see Part III, Item A. For reporting of upsets, see Part III, Item N.4

AB. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

AC. Signatory Requirements

All applications submitted to the Director shall be signed and certified in accordance with the requirements of 40 CFR 122.22 and OAC 3745-33-03.

All reports submitted to the Director shall be signed and certified in accordance with the requirements of 40 CFR 122.22 and OAC 3745-33-08.

AD. Other Information

1. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.
2. ORC 6111.07(C) provides no person knowingly shall submit false information or records or fail to submit information or records pertaining to discharges of sewage, industrial wastes, or other wastes or to sludge management required as a condition of a permit or knowingly render inaccurate any monitoring device or other method required to be maintained by the director.
3. ORC 6111.99 provides that any person who purposely or knowingly violates Sections 6111.04,

6111.042, 6111.05, or division (A) of Section 6111.07 of the Revised Code shall be subject to fines and/or imprisonment.

AE. Need to Halt or Reduce Activity

40 CFR 122.41(c) states that it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with conditions of this permit.

AF. Applicable Federal Rules

All references to 40 CFR in this permit mean the version of Title 40 CFR which is effective as of the effective date of this permit.

AG. Availability of Public Sewers

Notwithstanding the issuance or non-issuance of an NPDES permit to a semi-public disposal system, whenever the sewage system of a publicly owned treatment works becomes available and accessible, the permittee operating any semi-public disposal system shall abandon the semi-public disposal system and connect all sewage into the publicly owned treatment works.

PART IV. STORMWATER CONTROL MEASURES AND POLLUTION PREVENTION PROGRAMS

In Part IV and in Part VI, the term "minimize" means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practice.

A. Control Measures

You shall select, design, install, and implement control measures (including best management practices) to address the selection and design considerations in Part IV.B, and meet the control measures/best management practices in Part IV.C and any applicable numeric effluent limits in Part I. The selection, design, installation, and implementation of these control measures shall be in accordance with good engineering practices and manufacturer's specifications. Note that you may deviate from such manufacturer's specifications where you provide justification for such deviation and include documentation of your rationale in the part of your SWPPP that describes your control measures, consistent with Part IV.J.4. If you find that your control measures are not achieving their intended effect of minimizing pollutant discharges, you shall modify these control measures as expeditiously as practicable. Regulated stormwater discharges from your facility include stormwater run-on that commingles with stormwater discharges associated with industrial activity at your facility.

B. Control Measure Selection and Design Considerations

You shall consider the following when selecting and designing control measures:

1. Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater
2. Using control measures in combination is more effective than using control measures in isolation for minimizing pollutants in your stormwater discharge;
3. Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit;
4. Minimizing impervious areas at your facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce runoff and improve groundwater recharge and stream base flows in local streams, although care shall be taken to avoid ground water contamination;
5. Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
6. Conserving and/or restoring of riparian buffers will help protect streams from stormwater runoff and improve water quality; and
7. Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

C. Control Measures/Best Management Practices (BMPs)

1. Minimize Exposure - You shall minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling

operations) to rain, snow, snowmelt, and runoff by either locating these industrial materials and activities inside or protecting them with storm resistant coverings (although significant enlargement of impervious surface area is not recommended). In minimizing exposure, you should pay particular attention to the following:

- a. Use grading, berming, or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
- b. Locate materials, equipment, and activities so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas);
- c. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;
- d. Use drip pans and absorbents under or around leaky vehicles and equipment or store indoors where feasible;
- e. Use spill/overflow protection equipment;
- f. Drain fluids from equipment and vehicles prior to on-site storage or disposal;
- g. Perform all cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and
- h. Ensure that all washwater drains to a proper collection system (i.e., not the stormwater drainage system).

If the discharge of vehicle and equipment washwater is not authorized under Part I of this permit, these wastewaters must be discharged to sanitary sewer in accordance with applicable industrial pretreatment requirements or disposed of otherwise in accordance with applicable law.

[Note: Industrial materials do not need to be enclosed or covered if stormwater runoff from affected areas will not be discharged to receiving waters or if discharges are authorized under Part I of this permit.]

2. Good Housekeeping - You shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals, keeping materials orderly and labeled, and storing materials in appropriate containers.

3. Maintenance - You shall regularly inspect, test, maintain, and repair all industrial equipment and systems to avoid situations that may result in leaks, spills, and other releases of pollutants in stormwater discharged to receiving waters. You shall maintain all control measures that are used to achieve the control measures/best management practices (BMPs) required by this permit in effective operating condition. Nonstructural control measures shall also be diligently maintained (e.g., spill response supplies available, personnel appropriately trained). If you find that your control measures need to be replaced or repaired, you shall make the necessary repairs or modifications as expeditiously as practicable.

4. Spill Prevention and Response Procedures - You shall minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, you shall implement:

- a. Procedures for plainly labeling containers (e.g., "Used Oil", "Spent Solvents", "Fertilizers and Pesticides", etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;
 - b. Preventative measures such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;
 - c. Procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. Employees who may cause, detect, or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals should be a member of your stormwater pollution prevention team (Part IV.J.1); and
 - d. Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies. Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period, you shall notify the Ohio EPA in accordance with the requirements of Part III Item N of this permit as soon as you have knowledge of the discharge. Contact information shall be in locations that are readily accessible and available.
5. Erosion and Sediment Controls - You shall stabilize exposed areas and contain runoff using structural and/or non-structural control measures to minimize onsite erosion and sedimentation, and the resulting discharge of pollutants. Among other actions you shall take to meet this limit, you shall place flow velocity dissipation devices at discharge locations and within outfall channels where necessary to reduce erosion and/or settle out pollutants. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with the current edition of Ohio's Rainwater and Land Development manual (<https://epa.ohio.gov/divisions-and-offices/surface-water/guides-manuals/rainwater-and-land-development>), U.S. EPA's internet-based resources relating to BMPs for erosion and sedimentation, including the sector-specific Industrial Storm Water Fact Sheet Series, (<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-fact-sheets-and-guidance>), National Menu of Storm Water BMPs (<https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater>), and National Management Measures to Control Nonpoint Source Pollution from Urban Areas (<https://www.epa.gov/nps/urban-runoff-national-management-measures>).
6. Management of Runoff - You shall divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff, to minimize pollutants in your discharges. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with the current edition of Ohio's Rainwater and Land Development manual (<https://epa.ohio.gov/divisions-and-offices/surface-water/guides-manuals/rainwater-and-land-development>), U.S. EPA's internet-based resources relating to runoff management, including the sector-specific Industrial Storm Water Fact Sheet Series, (<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-fact-sheets-and-guidance>), National Menu of Storm Water BMPs (<https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater>), and National Management Measures to Control Nonpoint Source Pollution from Urban Areas (<https://www.epa.gov/nps/urban-runoff-national-management-measures>).
7. Salt Storage Piles or Piles Containing Salt - You shall enclose or cover storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces. You shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.
8. Sector Specific Control Measures/Best Management Practices (BMPs) - You shall achieve any additional control measures/best management practices (BMPs) stipulated in the relevant sector-specific

section(s) of Part IV.K. of this permit.

9. Employee Training - You shall train all employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel), including all members of your Pollution Prevention Team. Training shall cover both the specific control measures used to achieve the conditions in this Part, and monitoring, inspection, planning, reporting, and documentation requirements in other parts of this permit. Ohio EPA requires that training be conducted at least annually (or more often if employee turnover is high).

10. Non-Stormwater Discharges - You shall eliminate non-stormwater discharges not authorized in Part I and Part II of this NPDES permit. The following are additional non-stormwater discharges authorized under this permit:

- a. Discharges from fire-fighting activities (not planned exercises);
- b. Fire hydrant flushings;
- c. Potable water, including water line flushings;
- d. Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids;
- e. Irrigation drainage;
- f. Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- g. Pavement wash waters where no detergents or hazardous cleaning products are used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols, etc.), and the wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part IV.J.3), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent materials and sweeping, using hydrophobic mops/rags) and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- h. Routine external building washdown/power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols, etc.);
- i. Uncontaminated groundwater or spring water
- j. Foundation or footing drains where flows are not contaminated with process materials;
- k. Incidental windblown mist from cooling towers that collect on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdowns or drains)

11. Waste, Garbage and Floatable Debris - You shall ensure that waste, garbage, and floatable debris are not discharged to receiving waters by keeping exposed areas free of such materials or by intercepting them before they are discharged.

12. Dust Generation and Vehicle Tracking of Industrial Materials - You shall minimize generation of dust and off-site tracking of raw, final, or waste materials.

D. Corrective Actions

1. Conditions Requiring Review and Revision to Eliminate Problem - If any of the following conditions occur, you shall review and revise the selection, design, installation, and implementation of your control measures to ensure that the condition is eliminated and will not be repeated in the future:

- a. An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit) occurs at your facility;
- b. A discharge violates a numeric effluent limit;
- c. You become aware, or Ohio EPA determines, that your control measures are not stringent enough for the discharge to meet applicable water quality standards;
- d. An inspection or evaluation of your facility by an Ohio EPA official or local MS4 operator determines that modifications to the control measures are necessary to meet the control measures/best management practices (BMPs) in this permit; or
- e. You find in your routine facility inspection or quarterly visual assessment that your control measures are not being properly operated and maintained.

2. Conditions Requiring Review to Determine if Modifications Are Necessary - If construction or a change in design, operation, or maintenance at your facility significantly changes the nature of pollutants discharged in stormwater from your facility, or significantly increases the quantity of pollutants discharged, you shall review the selection, design, installation, and implementation of your control measures to determine if modifications are necessary to meet the Part IV.A conditions in this permit:

3. Corrective Action Deadlines - You shall document your discovery of any of the conditions listed in Part IV.D.1 and Part IV.D.2 within 24 hours of making such discovery. Subsequently, within 30 days of such discovery, you shall document any corrective action(s) to be taken to eliminate or further investigate the deficiency, or if no corrective action is needed, the basis for that determination. Specific documentation required within 24 hours and 30 days is detailed in Part IV.D.4. If you determine that changes are necessary following your review, any modifications to your control measures shall be made before the next storm event if possible, or as soon as practicable following that storm event. These time intervals are not grace periods, but are schedules considered reasonable for documenting your findings and for making repairs and improvements. They are included in this permit to ensure that the conditions prompting the need for these repairs and improvements are not allowed to persist indefinitely.

4. Corrective Action Report - Within 24 hours of discovery of any condition listed in Part IV.D.1 and Part IV.D.2, you shall document the following information:

- a. Identification of the condition triggering the need for corrective action review;
- b. Description of the problem identified; and
- c. Date the problem was identified.

Within 30 days of discovery of any condition listed in Part IV.D.1 and Part IV.D.2, you shall document the following information and submit the report to the appropriate Ohio EPA District Office):

- a. Summary of corrective action taken or to be taken (or, for triggering events identified in Part IV.D.2 where you determine that corrective action is not necessary, the basis for this determination);
- b. Notice of whether SWPPP modifications are required as a result of this discovery or corrective action;
- c. Date corrective action initiated; and
- d. Date corrective action completed or expected to be completed.

In addition to your corrective action report, you shall also include this documentation in an annual report as required in Part V. A.2 and retain onsite with your SWPPP.

5. Effect of Corrective Action - If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with this section is an additional permit violation. Ohio EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations.

6. Substantially Identical Outfalls - If the event triggering corrective action is linked to an outfall that represents other substantially identical outfalls, your review shall assess the need for corrective action for each outfall represented by the outfall that triggered the review. Any necessary changes to control measures that affect these other outfalls shall also be made before the next storm event if possible, or as soon as practicable following that storm event.

E. Inspections

Beginning on the effective date of this permit, you shall conduct the inspections in Part IV.E.1 and Part IV.E.2 at your facility.

1. Routine Facility Inspections

a. Routine Facility Inspection Procedure - Conduct routine facility inspections of all areas of the facility where industrial materials or activities are exposed to stormwater, and of all stormwater control measures used to comply with Part IV. Items A-C conditions contained in this permit. Routine facility inspections shall be conducted at least quarterly (i.e., once each calendar quarter) although in many instances, more frequent inspection (e.g., monthly) may be appropriate for some types of equipment, processes, and control measures or areas of the facility with significant activities and materials exposed to stormwater. Perform these inspections during periods when the facility is in operation. You shall specify the relevant inspection schedules in your SWPPP document as required in Part IV. Items A-C. These routine inspections shall be performed by qualified personnel (for definition see VI - Definitions) with at least one member of your stormwater pollution prevention team participating. At least once each calendar year, the routine facility inspection shall be conducted during a period when a stormwater discharge is occurring.

b. Routine Facility Inspection Documentation - You shall document the findings of each routine facility inspection performed and maintain this documentation onsite with your SWPPP. You are not required to submit your routine facility inspection findings to Ohio EPA, unless specifically requested to do so. At a minimum, your documentation of each routine facility inspection shall include:

- i. The inspection date and time;
- ii. The name(s) and signature(s) of the inspector(s);
- iii. Weather information and a description of any discharges occurring at the time of the inspection;
- iv. Any previously unidentified discharges of pollutants from the site;
- v. Any control measures needing maintenance or repairs;

- vi. Any failed control measures that need replacement;
- vii. Any incidents of noncompliance observed; and
- viii. Any additional control measures needed to comply with the permit requirements.

Any corrective action required as a result of a routine facility inspection shall be performed consistent with Part IV.D of this permit.

c. *Exceptions to Routine Facility Inspections:*

i. *Inactive and Unstaffed Sites* - The requirement to conduct routine facility inspections on a quarterly basis does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. Such a facility is only required to conduct an annual site inspection in accordance with the requirements of Part IV.E.1. To invoke this exception, you shall maintain a statement in your SWPPP pursuant to Part IV.F indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement shall be signed and certified in accordance with Part III, Item AC. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you shall immediately resume quarterly facility inspections. If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you shall include the same signed and certified statement as above and retain it with your records.

2. Quarterly Visual Assessment of Stormwater Discharges

a. *Quarterly Visual Assessment Procedures* - Once each calendar quarter for the entire permit term you shall collect a stormwater sample from 4PQ00008101 and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but should be collected in such a manner that the samples are representative of the stormwater discharge. The visual assessment shall be made:

- i. Of a sample in a clean, clear glass, or plastic container, and examined in a well-lit area;
- ii. On samples collected within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample shall be collected as soon as practicable after the first 30 minutes and you shall document why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples shall be taken during a period with a measurable discharge from your site; and
- iii. For storm events, on discharges that occur at least 72 hours (3 days) from the previous discharge. The 72-hour (3-day) storm interval does not apply if you document that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period. If it is not possible to collect the sample on discharges that occur at least 72 hours (3 days) from the previous discharge, the sample shall be collected as close to this storm interval as practicable and you shall document why it was not possible to take samples from a 72 hour (3 day) storm interval.
- iv. Areas Subject to Snow: In areas subject to snow, at least one quarterly visual assessment shall capture snowmelt discharge.
- v. For the following water quality characteristics: color, odor, clarity, floating solids, settled solids,

suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

b. Quarterly Visual Assessment Documentation - You shall document the results of your visual assessments and maintain this documentation onsite with your SWPPP. You are not required to submit your visual assessment findings to Ohio EPA, unless specifically requested to do so. At a minimum, your documentation of the visual assessment shall include:

- i. Sample location(s)
- ii. Sample collection date and time, and visual assessment date and time for each sample;
- iii. Personnel collecting the sample and performing visual assessment, and their signatures;
- iv. Nature of the discharge (i.e., runoff or snowmelt);
- v. Results of observations of the stormwater discharge;
- vi. Probable sources of any observed stormwater contamination; and
- vii. If applicable, why it was not possible to take samples within the first 30 minutes and/or from a 72 hour (3 day) storm interval.

Any corrective action required as a result of a quarterly visual assessment shall be performed consistent with Part IV.D of this permit.

c. Exceptions to Quarterly Visual Assessments

The following are exceptions to quarterly visual assessments:

- i. *Adverse Weather Condition* - When adverse weather conditions prevent the collection of samples during the quarter, you shall take a substitute sample during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter shall be included with your SWPPP records. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions.
- ii. *Areas Subject to Snow* - In areas subject to snow, at least one quarterly visual assessment shall capture snowmelt discharge, as described in Part IV.E.2.
- iii. *Substantially Identical Outfalls* - If your facility has two or more outfalls that you believe discharge substantially identical effluents, as documented in your SWPPP, you may conduct quarterly visual assessments of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s) provided that you perform visual assessments on a rotating basis of each substantially identical outfall throughout the period of your coverage under this permit. If stormwater contamination is identified through visual assessment performed at a substantially identical outfall, you shall assess and modify your control measures as appropriate for each outfall represented by the monitored outfall.
- iv. *Inactive and Unstaffed Sites* - The requirement for a quarterly visual assessment does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you shall maintain a statement in your SWPPP indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement shall be signed and certified in accordance with Part III, Item AC of this permit. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you shall immediately resume quarterly visual assessments. If you are not qualified for this exception at the time you are authorized under this permit,

but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you shall include the same signed and certified statement as above and retain it with your records.

F. Stormwater Pollution Prevention Plan (SWPPP)

A stormwater pollution prevention plan (SWPPP) shall be developed to address each outfall that discharges to waters of the state that contains stormwater associated with industrial activity. Stormwater pollution prevention plans shall be prepared in accordance with good engineering practices. The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges associated with industrial activity from the facility. The SWPPP shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in stormwater discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the stormwater pollution prevention plan required under this part as a condition of this permit.

The SWPPP does not contain effluent limitations; the limitations or benchmarks are contained in Part I. The SWPPP is intended to document the selection, design, and installation of control measures. As distinct from the SWPPP, the documentation requirements are intended to document the implementation (including inspection, maintenance, monitoring, and corrective action) of the permit requirements.

G. Deadlines for SWPPP Preparation and Compliance

1. The plan for a stormwater discharge associated with industrial activity:

a. Shall be prepared within six months of completion of facility construction (and updated based on facility or materials handling changes as specified in Part IV, Item I);

b. Shall provide for implementation and compliance with the terms of the plan within twelve months of the effective date of this permit.

Upon showing of good cause, the Director may establish a later date for preparing and compliance with a plan for a stormwater discharge associated with industrial activity.

H. Signature Requirements and SWPPP Availability

1. Your plan shall be signed and dated in accordance with Part III, Item AC, and be retained on-site at the facility which generates the stormwater discharge.

2. You shall retain a copy of the current SWPPP required by this permit at the facility, and it shall be immediately available to Ohio EPA; a local agency approving stormwater management plans; and the operator of an MS4 receiving discharges from the site. Ohio EPA may provide access to portions of your SWPPP to a member of the public upon request. Confidential Business Information (CBI) may be withheld from the public, but may not be withheld from those staff cleared for CBI review within Ohio EPA. Your current SWPPP or certain information from your current SWPPP shall be made available to the public, except any confidential business information (CBI) or restricted information, but you shall clearly identify those portions of the SWPPP that are being withheld from public access. See 40 CFR Part 2 for relevant definitions of CBI:

<https://www.govinfo.gov/content/pkg/CFR-2013-title40-vol1/pdf/CFR-2013-title40-vol1-part2-subpartB.pdf>

3. All stormwater pollution prevention plans required under this permit are considered reports that shall be available to the public under Section 308(b) of the Act. Confidential Business Information (CBI) may be withheld from the public, but may not be withheld from those staff cleared for CBI review within Ohio EPA. An interested party wishing a copy of a discharger's SWPPP will have to contact the Ohio EPA to obtain a copy.

I. Required SWPPP Modifications

The permittee shall modify your SWPPP whenever necessary to address any of the triggering conditions for corrective action in Part IV.D and to ensure that they do not reoccur, or to reflect changes implemented when a review following the triggering conditions in Part IV.D.2 indicates that changes to your control measures are necessary to meet the control measures/best management practices (BMPs) in this permit. Changes to your SWPPP document shall be made in accordance with the corrective action deadlines in Part IV.D.3 and Part IV.D.4.

The Director may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Within 30 days of such notification from the Director, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.

J. Contents of SWPPP

The plan shall include, at a minimum, the following items:

1. Stormwater Pollution Prevention Team

You shall identify the staff members (by name or title) that comprise the facility's stormwater pollution prevention team as well as their individual responsibilities. Your stormwater pollution prevention team is responsible for assisting the facility manager in developing and revising the facility's SWPPP as well as maintaining control measures and taking corrective actions where required. Each member of the stormwater pollution prevention team shall have ready access to either an electronic or paper copy of applicable portions of this permit and your SWPPP.

2. Site Description

Your SWPPP shall include the following:

a. Activities at the Facility - Provide a description of the nature of the industrial activities at your facility;

b. General location map. - Provide a general location map (e.g. U.S. Geologic Survey (USGS) quadrangle map) with enough detail to identify the location of your facility and all receiving waters for your stormwater discharges.

c. Site map - Provide a site map showing:

- The size of the property in acres;
- The location and extent of significant structures and impervious surfaces;
- Directions of stormwater flow (use arrows);
- Locations of all existing structural control measures;
- Locations of all receiving waters in the immediate vicinity of your facility;
- Locations of all stormwater conveyances including ditches, pipes and swales;

- Locations of potential pollutant sources identified under Part IV J. 2.b;
- Locations where significant spills or leaks identified under Part IV J. 2.b. have occurred;
- Locations of all stormwater monitoring points;
- Locations of stormwater inlets and outfalls, with a unique identification code for each outfall (e.g. Outfall 001, Outfall 002, etc), indicating any outfalls that are considered substantially identical to another outfall, and an approximate outline of the areas draining to each outfall;
- Municipal separate storm sewer systems, where your stormwater discharges to them;
- Locations and descriptions of all non-stormwater discharges identified under Part IV. C. 10;
- Locations of the following activities where such activities are exposed to precipitation:

- Fueling stations;
- Vehicle and equipment maintenance and/or cleaning areas;
- Loading/unloading areas;
- Locations used for the treatment, storage, or disposal of wastes;
- Liquid storage tanks;
- Processing and storage areas;
- Immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
- Transfer areas for substances in bulk;
- Machinery; and
- Locations and sources of run-on to your site from adjacent property that contains significant quantities of pollutants.

3. Summary of Potential Pollutant Sources

You shall document at your facility where industrial materials or activities are exposed to stormwater and from which allowable non-stormwater discharges are released. Industrial materials or activities, include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final product or waste product. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each area identified, the description shall include, at a minimum:

a. Activities in the Area - This includes a list of industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams).

b. Pollutants - A list of the pollutant(s) or pollutant constituents (e.g, crankcase oil, zinc, sulfuric acid, and cleaning solvents) associated with each identified activity. The pollutant list shall include all significant materials that have been handled, treated, stored, or disposed, and that have been exposed to stormwater in the three years prior to the date you prepare or amend your SWPPP.

c. Spills and Leaks - You shall document where potential spills and leaks could occur that could contribute pollutants to stormwater discharges, and the corresponding outfall(s) that would be affected by such spills and leaks. You shall document all significant spills and leaks of oil or toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date you prepare or amend your SWPPP.

[Note: Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA Section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC Section 9602. This permit does not relieve you of the reporting requirements of 40

CFR 110, 40 CFR 117, and 40 CFR 302 relating to spills or other releases of oil or hazardous substances.]

d. Non-Stormwater Discharges - You shall document that you have evaluated for the presence of non-stormwater discharges, except for those listed in Part I and Part IV.C.10, and that all unauthorized discharges have been eliminated. Documentation of your evaluation shall include:

- i. The date of any evaluation;
- ii. A description of the evaluation criteria used;
- iii. A list of the outfalls or onsite drainage points that were directly observed during the evaluation;
- iv. The different types of non-stormwater discharge(s) and source locations; and
- v. The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge.

e. Salt Storage - You shall document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.

f. Sampling Data - A summary of existing discharge sampling data describing pollutants in stormwater discharges from the facility.

4. Description of Control Measures

You shall document the location and type of control measures you have installed and implemented at your site to achieve the control measures/best management practices (BMPs) in Part IV.C, and where applicable, in Part IV.K. You shall describe how you addressed the control measure selection and design considerations in Part IV.B. This documentation shall describe how the control measures at your site address both the pollutant sources identified in Part IV.J.2 and any stormwater run-on that commingles with any discharges covered under this permit.

5. Schedules and Procedures

a. Pertaining to Control Measures used to Comply with the Control Measures/Best Management Practices (BMPs) - The following shall be documented in your SWPPP:

i. Good Housekeeping (See Part IV.C.2) - A schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers.

ii. Maintenance (See Part IV.C.3) - Preventative maintenance procedures, including regular inspections, testing, maintenance, and repair of all industrial equipment and systems, and control measures, to avoid situations that may result in leaks, spills, and other releases, and any back-up practices in place should a runoff event occur while a control measure is off-line;

iii. Spill Prevention and Response Procedures (See Part IV.C.4) - Procedures for preventing and responding to spills and leaks. You may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC) developed for the facility under Section 311 of the CWA or BMP programs otherwise required by an NPDES permit for the facility, provided that you keep a copy of that other plan onsite (hard copy or electronic) and make it available for review consistent with Part IV.H.2; and

iv. Employee Training (See Part IV.C.9) - A schedule for all types of necessary training.

b. Pertaining to Monitoring and Inspection - Where applicable, you shall document in your SWPPP your procedures for conducting analytical stormwater monitoring. You shall document in your SWPPP your procedures for performing, as appropriate, the two types of inspections specified by this permit, including: 1) Routine facility inspections (See Part IV.E.1) and 2) Quarterly visual assessment of stormwater discharges (See Part IV.E.2).

For each type of monitoring, your SWPPP shall document:

- i. Locations where samples are collected, including any determination that two or more outfalls are substantially identical;
- ii. Parameters for sampling and the frequency of sampling for each parameter;
- iii. Schedules for monitoring at your facility;
- iv. Any numeric control values (benchmarks, effluent limitations guidelines, or other requirements) applicable to discharges from each outfall; and
- v. Procedures (e.g., responsible staff, logistics, laboratory to be used, etc.) for gathering storm event data.

For each type of inspection performed, your SWPPP shall identify:

- i. Person(s) or positions of person(s) responsible for inspection;
- ii. Schedules for conducting inspections; and
- iii. Specific items to be covered by the inspection, including schedules for specific outfalls.

You shall document the following in your SWPPP if you plan to use the substantially identical outfall exception for your quarterly visual assessment requirements in Part IV.E.2:

- i. Location of each of the substantially identical outfalls;
- ii. Description of the general industrial activities conducted in the drainage area of each outfall;
- iii. Description of the control measures implemented in the drainage area of each outfall;
- iv. Description of the exposed materials located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges;
- v. An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%); and
- vi. Why the outfalls are expected to discharge substantially identical effluents.

6. Documentation Requirements - You are required to keep inspection, monitoring, and certification records with your SWPPP that together keep your records complete and up-to-date, and demonstrate your full compliance with the conditions of this permit:

- i. A copy of this permit (an electronic copy easily available to SWPPP personnel is also acceptable);
- ii. Descriptions and dates of any incidences of significant spills, leaks, or other releases that resulted in discharges of pollutants to surface waters of the State, through stormwater or otherwise; the circumstances leading to the release and actions taken in response to the release; and measures taken to prevent the recurrence of such releases (see Part IV.C.4);
- iii. Records of employee training, including date training received (see Part IV.C.9);
- iv. Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (see Part IV.C.3);

- v. All inspection reports, including the Routine Facility Inspection Reports (see Part IV.E.1) and the Quarterly Visual Assessment Reports (see Part IV.E.2);
- vi. Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes and/or from a 72-hour (3 day) storm interval) (see Parts IV.E.2.a, Part V.B);
- vii. Description of any corrective action taken at your site, including triggering event and dates when problems were discovered and modifications occurred;
- viii. Documentation of any benchmark exceedances and how they were responded to, including either (1) corrective action taken, (2) a finding that the exceedance was due to natural background pollutant levels, or (3) a finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part V.B; and
- ix. Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters, and that such pollutants were not detected in your discharge or were solely attributable to natural background sources (see Part V.B).

K. Sector specific requirement.

Sector T - Treatment Works

You shall comply with the following sector-specific requirements associated with your primary industrial activity and any co-located industrial activities, as defined in Part VI. The sector-specific requirements apply to those areas of your facility where those sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

1. Limitations on Coverage - Except for discharges covered under Part I and other allowable discharges listed in Part IV.C.10.

a. Prohibition of Non-Stormwater Discharges - Sanitary and industrial wastewater and equipment and vehicle washwater are not authorized by this permit.

2. Additional Control Measures/Best Management Practices (BMPs)

a. Control Measures (See also Part IV.C) - In addition to the other control measures, consider the following: routing contaminated stormwater to the treatment works; or covering exposed materials (i.e., from the following areas: grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; and septage or hauled waste receiving station).

b. Employee Training (See also Part IV.C.9) - At a minimum, training shall address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and controls; fueling procedures; general good housekeeping practices; and proper procedures for using fertilizer, herbicides, and pesticides.

3. Additional SWPPP Requirements

a. Site Map (See also Part IV.J.2.) - Document in your SWPPP where any of the following may be exposed to precipitation or surface runoff: grit, screenings, and other solids handling, storage, or disposal

areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides, and pesticides.

b. Potential Pollutant Sources (See also Part IV.J.3.) - Document in your SWPPP the following additional sources and activities that have potential pollutants associated with them, as applicable: grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and access roads and rail lines.

c. Wastewater and Washwater Requirements - Keep a copy of all your current NPDES permits issued for wastewater and industrial, vehicle and equipment washwater discharges or, if an NPDES permit has not yet been issued, a copy of the pending application(s) with your SWPPP. If the washwater is handled in another manner, the disposal method shall be described and all pertinent documentation shall be retained onsite.

4. Additional Inspection Requirements (See also Part IV.E.) - Include the following areas in all inspections: access roads and rail lines; grit, screenings, and other solids handling, storage, or disposal areas; sludge drying beds; dried sludge piles; compost piles; and septage or hauled waste receiving station.

PART V. MONITORING AND REPORTING REQUIREMENTS

A. Reporting Benchmark Monitoring Data to Ohio EPA

1. Reporting Benchmark Monitoring Data to Ohio EPA - Reserved

2. Annual Report - You shall complete an annual report using the Annual Reporting Form provided by Ohio EPA at the following location:

<https://view.officeapps.live.com/op/view.aspx?src=https://epa.ohio.gov/static/Portals/35/permits/OHR000007/OHR000007-AR.docx&wdOrigin=BROWSELINK>

You are not required to submit your annual report to Ohio EPA unless specifically requested. The timeframe to complete the report is at the discretion of the permittee but the same schedule to complete shall be maintained throughout this permit term. You shall keep the completed annual reports with your SWPPP.

B. Stormwater Monitoring Requirements - Reserved (references to Part V.B do not apply)

PART VI. DEFINITIONS AND ACRONYMS

Action Area - all areas to be affected directly or indirectly by the stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities, and not merely the immediate area involved in these discharges and activities.

Best Management Practices (BMPs) - schedules of activities, practices (and prohibitions of practices), structures, vegetation, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to surface waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. See 40 CFR 122.2.

Co-located Industrial Activities - Any industrial activities, excluding your primary industrial activity(ies), located on-site that are defined by the stormwater regulations at 122.26(b)(14)(i)-(ix) and (xi). An activity at a facility is not considered co-located if the activity, when considered separately, does not meet the description of a category of industrial activity covered by the stormwater regulations or identified by the SIC code list in the Industrial Multi-Sector General Permit OHR000007, Appendix D.

Control Measure - refers to any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to surface waters of the State.

Director - the Director of the Ohio Environmental Protection Agency (Ohio EPA).

Discharge - when used without qualification, means the "discharge of a pollutant." See 40 CFR 122.2.

Discharge of a pollutant - any addition of any "pollutant" or combination of pollutants to "surface waters of the State" from any "point source", or any addition of any pollutant or combination of pollutants to the waters of the "contiguous zone" or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation. This includes additions of pollutants into surface waters of the State from: surface runoff which is collected or channeled by man; discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. See 40 CFR 122.2.

Discharge-related activities - activities that cause, contribute to, or result in stormwater and allowable non-stormwater point source discharges, and measures such as the siting, construction and operation of BMPs to control, reduce, or prevent pollution in the discharges.

Drought-stricken area - a period of below average water content in streams, reservoirs, ground-water aquifers, lakes and soils.

U.S. EPA Approved or Established Total Maximum Daily Loads (TMDLs) - "U.S. EPA Approved TMDLs" are those that are developed by a State and approved by U.S. EPA. "U.S. EPA Established TMDLs" are those that are developed by U.S. EPA.

Existing Discharger - an operator applying for coverage under this permit for discharges authorized previously under an NPDES general or individual permit.

Facility or Activity - any NPDES "point source" (including land or appurtenances thereto) that is subject to regulation under the NPDES program. See 40 CFR 122.2.

Federal Facility - any buildings, installations, structures, land, public works, equipment, aircraft, vessels, and other vehicles and property, owned by, or constructed or manufactured for the purpose of leasing to,

the federal government.

Illicit Discharge - is defined at 40 CFR 122.26(b)(2) and refers to any discharge to a municipal separate storm sewer that is not entirely composed of stormwater, except discharges authorized under an NPDES permit (other than the NPDES permit for discharges from the MS4) and discharges resulting from firefighting activities.

Impaired Water (or "Water Quality Impaired Water" or "Water Quality Limited Segment") - A water is impaired for purposes of this permit if it has been identified by a State or U.S. EPA pursuant to Section 303(d) of the Clean Water Act as not meeting applicable State water quality standards (these waters are called "water quality limited segments" under 40 CFR 30.2(j)). Impaired waters include both waters with approved or established TMDLs, and those for which a TMDL has not yet been approved or established.

Industrial Activity - the 10 categories of industrial activities included in the definition of "stormwater discharges associated with industrial activity" as defined in 40 CFR 122.26(b)(14)(i)-(ix) and (xi).

Industrial Stormwater - stormwater runoff from industrial activity.

Municipal Separate Storm Sewer - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

(i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;

(ii) Designed or used for collecting or conveying stormwater;

(iii) Which is not a combined sewer; and

(iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2; See 40 CFR 122.26(b)(4) and (b)(7).

New Discharger - a facility from which there is a discharge, that did not commence the discharge at a particular site prior to August 13, 1979, which is not a new source, and which has never received a finally effective NPDES permit for discharges at that site. See 40 CFR 122.2.

New Source - any building, structure, facility, or installation from which there is or may be a "discharge of pollutants", the construction of which commenced:

(i) after promulgation of standards of performance under section 306 of the CWA which are applicable to such source, or

(ii) after proposal of standards of performance in accordance with section 306 of the CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal. See 40 CFR 122.2.

New Source Performance Standards (NSPS) - technology-based standards for facilities that qualify as new sources under 40 CFR 122.2 and 40 CFR 122.29.

No exposure - all industrial materials or activities are protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. See 40 CFR 122.26(g).

Ohio EPA - the Ohio Environmental Protection Agency.

Operator - any entity with a stormwater discharge associated with industrial activity that meets either of the following two criteria:

(i) The entity has operational control over industrial activities, including the ability to modify those activities;

(ii) The entity has day-to-day operational control of activities at a facility necessary to ensure compliance with the permit (e.g., the entity is authorized to direct workers at a facility to carry out activities required by the permit).

Person - an individual, association, partnership, corporation, municipality, State or Federal agency, or an agent or employee thereof. See 40 CFR 122.2.

Point source - any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff. See 40 CFR 122.2.

Pollutant - dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water. See 40 CFR 122.2.

Pollutant of concern - A pollutant which causes or contributes to a violation of a water quality standard, including a pollutant which is identified as causing an impairment in a state's 303(d) list.

Primary industrial activity - includes any activities performed on-site which are (1) identified by the facility's primary SIC code; or (2) included in the narrative descriptions of 122.26(b)(14)(i), (iv), (v), or (vii), and (ix). [For co-located activities covered by multiple SIC codes, it is recommended that the primary industrial determination be based on the value of receipts or revenues or, if such information is not available for a particular facility, the number of employees or production rate for each process may be compared. The operation that generates the most revenue or employs the most personnel is the operation in which the facility is primarily engaged. In situations where the vast majority of on-site activity falls within one SIC code, that activity may be the primary industrial activity.] Narrative descriptions in 40 CFR 122.26(b)(14) identified above include: (i) activities subject to stormwater effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards; (iv) hazardous waste treatment storage, or disposal facilities including those that are operating under interim status or a permit under subtitle C of the Resource Conservation and Recovery Act (RCRA); (v) landfills, land application sites and open dumps that receive or have received industrial wastes; (vii) steam electric power generating facilities; and (ix) sewage treatment works with a design flow of 1.0 MGD or more.

Qualified Personnel - Qualified personnel are those who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at your facility, and who can also evaluate the effectiveness of control measures.

Reportable Quantity Release - a release of a hazardous substance at or above the established legal threshold that requires emergency notification. Refer to 40 CFR Parts 110, 117, and 302 for complete definitions and reportable quantities for which notification is required.

Runoff coefficient - the fraction of total rainfall that will appear at the conveyance as runoff. See 40 CFR 122.26(b)(11).

Run-On - sources of stormwater that drain from land located upslope or upstream from the regulated facility in question.

Semi-Arid Climate - areas where annual rainfall averages from 10 to 20 inches.

Significant materials - includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with stormwater discharges. See 40 CFR 122.26(b)(12).

Special Aquatic Sites - sites identified in 40 CFR 230 Subpart E. These are geographic areas, large or small, possessing special ecological characteristics of productivity, habitat, wildlife protection, or other important and easily disrupted ecological values. These areas are generally recognized as significantly influencing or positively contributing to the general overall environmental health or vitality of the entire ecosystem of a region.

Stormwater - stormwater runoff, snow melt runoff, and surface runoff and drainage. See 40 CFR 122.26(b)(13).

Stormwater Discharges Associated with Construction Activity - a discharge of pollutants in stormwater runoff from areas where soil disturbing activities (e.g., clearing, grading, or excavating), construction materials, or equipment storage or maintenance (e.g., fill piles, borrow areas, concrete truck washout, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants) are located. See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15).

Stormwater Discharges Associated with Industrial Activity - the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under Part 122. For the categories of industries identified in this section, the term includes, but is not limited to, stormwater discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at part 401 of this chapter); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and final products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater. For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with stormwater drained from the above described areas. Industrial

facilities include those that are federally, State, or municipally owned or operated that meet the description of the facilities listed in 40 CFR 122.26(b)(14).

Surface Waters of the State - Means all streams, lakes, ponds, marshes, watercourses, waterways, springs, irrigation systems, drainage systems, and all other bodies or accumulations of surface water, natural or artificial, which are situated wholly or partly within, or border upon, this state, or are within its jurisdiction, except those private waters which do not combine or effect a junction with natural surface waters.

Total Maximum Daily Loads (TMDLs) - A TMDL is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL includes wasteload allocations (WLAs) for point source discharges; load allocations (LAs) for nonpoint sources and/or natural background, and shall include a margin of safety (MOS) and account for seasonal variations. (See section 303(d) of the Clean Water Act and 40 CFR 130.2 and 130.7).

Water Quality Impaired - See "Impaired Water".

Water Quality Standards - A water quality standard defines the water quality goals of a water body, or portion thereof, by designating the use or uses to be made of the water and by setting criteria necessary to protect the uses. States and U.S. EPA adopt water quality standards to protect public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act (See CWA sections 101(a)2 and 303(c)). Water quality standards also include an antidegradation policy. See P.U.D. o. 1 of Jefferson County et al v. Wash Dept of Ecology et al, 511 US 701, 705 (1994).

"You" and "Your" - as used in this permit are intended to refer to the permittee, the operator, or the discharger as the context indicates and that party's facility or responsibilities. The use of "you" and "your" refers to a particular facility and not to all facilities operated by a particular entity. For example, "you shall submit" means the permittee shall submit something for that particular facility. Likewise, "all your discharges" would refer only to discharges at that one facility.

ABBREVIATIONS AND ACRONYMS

BAT - Best Available Technology Economically Achievable
BOD5 - Biochemical Oxygen Demand (5-day test)
BMP - Best Management Practice
BPJ - Best Professional Judgment
BPT - Best Practicable Control Technology Currently Available
CERCLA - Comprehensive Environmental Response, Compensation and Liability Act
CGP - Construction General Permit
COD - Chemical Oxygen Demand
CWA - Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. ?1251 et seq)
CWT - Centralized Waste Treatment
DMR - Discharge Monitoring Report
U.S. EPA - U. S. Environmental Protection Agency
FWS - U. S. Fish and Wildlife Service
LA - Load Allocations
MDMR - MSGP Discharge Monitoring Report
MGD - Million Gallons per Day
MOS - Margin of Safety
MS4 - Municipal Separate Storm Sewer System
MSDS - Material Safety Data Sheet
MSGP - Multi-Sector General Permit
NAICS - North American Industry Classification System
NMFS - U. S. National Marine Fisheries Service
NOI - Notice of Intent
NOT - Notice of Termination
NPDES - National Pollutant Discharge Elimination System
NRC - National Response Center
NTU - Nephelometric Turbidity Unit
OMB - U. S. Office of Management and Budget
ORW - Outstanding Resource Water
OSM - U. S. Office of Surface Mining
POTW - Publicly Owned Treatment Works
RCRA - Resource Conservation and Recovery Act
RQ - Reportable Quantity
SARA - Superfund Amendments and Reauthorization Act
SIC - Standard Industrial Classification
SMCRA - Surface Mining Control and Reclamation Act
SPCC - Spill Prevention, Control, and Countermeasures
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
TSDF - Treatment, Storage, or Disposal Facility
TSS - Total Suspended Solids
USGS - United States Geological Survey
WLA - Wasteload Allocation
WQS - Water Quality Standard

National Pollutant Discharge Elimination System (NPDES) Permit Program

FACT SHEET

Regarding an NPDES Permit to Discharge to Waters of the State of Ohio For
Mid-Ohio Regional Water & Sewer District (MORSWD)
Deer Creek Water Reclamation Facility (WRF)

Public Notice No.: 217095
Public Notice Date: 12/22/2025
Comment Period Ends: 2/17/2026

Ohio EPA Permit No.: **4PQ00008*AD**
Application No.: **OH0151771**

Name and Address of Applicant:
Mid-Ohio Regional W&S District
3161 County Highway 109
London, OH 43140

Name and Address of Facility Where Discharge Occurs:
Deer Creek WRF
1685 Lafayette Plain City Road
London, OH 43140
Madison County

Receiving Water: **Deer Creek**

Subsequent Stream Network: **Scioto River, Ohio River**

INTRODUCTION

Development of a Fact Sheet for NPDES permits is mandated by Title 40 of the Code of Federal Regulations (CFR), Section 124.8 and 124.56. This document fulfills the requirements established in those regulations by providing the information necessary to inform the public of actions proposed by the Ohio Environmental Protection Agency (Ohio EPA), as well as the methods by which the public can participate in the process of finalizing those actions.

This Fact Sheet is prepared in order to document the technical basis and risk management decisions that are considered in the determination of water quality based NPDES Permit effluent limitations. The technical basis for the Fact Sheet may consist of evaluations of promulgated effluent guidelines, existing effluent quality, instream biological, chemical and physical conditions, and the relative risk of alternative effluent limitations. This Fact Sheet details the discretionary decision-making process empowered to the Director by the Clean Water Act (CWA) and Ohio Water Pollution Control Law (Ohio Revised Code [ORC] 6111). Decisions to award variances to Water Quality Standards (WQS) or promulgated effluent guidelines for economic or technological reasons will also be justified in the Fact Sheet where necessary.

Antidegradation provisions in Ohio Administrative Code (OAC) Chapter 3745-1 describe the conditions under which water quality may be lowered in surface waters. It has been determined that a lowering of water quality in Deer Creek is necessary. In accordance with OAC 3745-1-05, this decision was reached only after examining a series of technical alternatives, reviewing social and economic issues related to the degradation, and considering all public and appropriate intergovernmental comments. The lowering of water quality is necessary to accommodate important social or economic development in the area in which the water body is located.

Effluent limits based on available treatment technologies are required by Section 301(b) of the CWA. Many of these have already been established by the United States Environmental Protection Agency (U.S. EPA) in the effluent guideline regulations (a.k.a. categorical regulations) for industry categories in 40 CFR Parts 405-499.

Technology-based regulations for publicly-owned treatment works are listed in the Secondary Treatment Regulations (40 CFR Part 133). If regulations have not been established for a category of dischargers, the director may establish technology-based limits based on best professional judgment (BPJ).

Ohio EPA reviews the need for water-quality-based limits on a pollutant-by-pollutant basis. Wasteload allocations (WLAs) are used to develop these limits based on the pollutants that have been detected in the discharge, and the receiving water's assimilative capacity. The assimilative capacity depends on the flow in the water receiving the discharge, and the concentration of the pollutant upstream. The greater the upstream flow, and the lower the upstream concentration, the greater the assimilative capacity is. Assimilative capacity may represent dilution (as in allocations for metals), or it may also incorporate the break-down of pollutants in the receiving water (as in allocations for oxygen-demanding materials).

The need for water-quality-based limits is determined by comparing the WLA for a pollutant to a measure of the effluent quality. The measure of effluent quality is called Projected Effluent Quality (PEQ). This is a statistical measure of the average and maximum effluent values for a pollutant. As with any statistical method, the more data that exists for a given pollutant, the more likely that PEQ will match the actual observed data. If there is a small data set for a given pollutant, the highest measured value is multiplied by a statistical factor to obtain a PEQ; for example if only one sample exists, the factor is 6.2, for two samples - 3.8, for three samples - 3.0. The factors continue to decline as samples sizes increase. These factors are intended to account for effluent variability, but if the pollutant concentrations are fairly constant, these factors may make PEQ appear larger than it would be shown to be if more sample results existed.

SUMMARY OF PERMIT CONDITIONS

Below is a summary of notable effluent limits, monitoring requirements, and permit conditions proposed for the new facility.

The Mid-Ohio Regional Water & Sewer District (MORWSD) Deer Creek Water Reclamation Facility (WRF) is a new publicly-operated treatment works with construction planned to be completed in August 2028. The proposed facility has an average daily design flow of 5.0 MGD and will discharge to Deer Creek at River Mile 62.9.

Effluent limits are proposed for total suspended solids, 5-day carbonaceous biochemical oxygen demand (CBOD5), ammonia, and dissolved oxygen. These limits are based on best available demonstrated control technology (BADCT) standards for the new facility, as required by OAC 3745-1-05.

Effluent limits are proposed for oil & grease, *E. coli*, and pH to be protective of water quality standards.

Effluent limits are proposed for total phosphorus and total dissolved inorganic nitrogen, based on antidegradation (OAC 3745-01-05(C)(1)) and best technical judgement. Monitoring is also proposed for orthophosphate, nitrite plus nitrate, and total Kjeldahl nitrogen.

Monitoring for chronic toxicity with the determination of acute endpoints is proposed for the life of the permit. This satisfies the minimum testing requirements of Ohio Administrative Code (OAC) 3754-33-07(B)(11) and will adequately characterize toxicity from the plant's effluent.

Monitoring is proposed for cadmium, chromium, copper, dissolved hexavalent chromium, free cyanide, lead, mercury, nickel, total filterable residue, and zinc, as these are common pollutants of concern for publicly-operated treatment works.

Monitoring for multiple parameters is proposed at influent monitoring station 601 to facilitate determinations regarding pollutant reductions and future development of pretreatment local limits.

Monitoring for multiple parameters is proposed at upstream monitoring station 801 and downstream monitoring station 901 to assess the new facility's impact on the receiving stream and to facilitate use attainment determinations.

Monitoring is proposed for sludge removal for land application (monitoring station 581), hauling to landfill (586), and transfer to another NPDES permit holder (588).

In Part II of the permit, special conditions are included that address sanitary sewer overflow (SSO) reporting; operator certification, minimum staffing and operator of record; parameter tracking; whole effluent toxicity (WET) testing; local limit development; supplemental effluent data; and outfall signage.

Parts IV, V, and VI have been included with the draft permit to ensure that any stormwater flows from the facility site are properly regulated and managed.

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PROCEDURES FOR PARTICIPATION IN THE FORMULATION OF FINAL DETERMINATIONS

The draft action shall be issued as a final action unless the Director revises the draft after consideration of the record of a public meeting or written comments, or upon disapproval by the Administrator of the U.S. Environmental Protection Agency.

Within thirty days of the date of the Public Notice, any person may request or petition for a public meeting for presentation of evidence, statements or opinions. The purpose of the public meeting is to obtain additional evidence. Statements concerning the issues raised by the party requesting the meeting are invited. Evidence may be presented by the applicant, the state, and other parties, and following presentation of such evidence other interested persons may present testimony of facts or statements of opinion.

Requests for public meetings shall be in writing and shall state the action of the Director objected to, the questions to be considered, and the reasons the action is contested. Such requests should be emailed to HClerk@epa.ohio.gov or mailed to:

**Legal Records Section
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, Ohio 43216-1049**

Interested persons are invited to submit written comments upon the discharge permit. Comments should be submitted by email to epa.dswcomments@epa.ohio.gov (preferred method) or delivered in person or by mail no later than 30 days after the date of this Public Notice. Deliver or mail all comments to:

**Ohio Environmental Protection Agency
Attention: Division of Surface Water
Permits Processing Unit
P.O. Box 1049
Columbus, Ohio 43216-1049**

The Ohio EPA permit number and Public Notice numbers should appear on each page of any submitted comments. All comments received no later than 30 days after the date of the Public Notice will be considered.

Citizens may conduct file reviews regarding specific companies or sites. Appointments are necessary to conduct file reviews, because requests to review files have increased dramatically in recent years. The first 250 pages copied are free. For requests to copy more than 250 pages, there is a five-cent charge for each page copied. Payment is required by check or money order, made payable to Treasurer State of Ohio.

For additional information about this fact sheet or the draft permit, contact David Brumbaugh at 614-644-2138 or david.brumbaugh@epa.ohio.gov.

INFORMATION REGARDING CERTAIN WATER QUALITY BASED EFFLUENT LIMITS

This draft permit may contain proposed water-quality-based effluent limits (WQBELs) for parameters that **are not** priority pollutants. (See the following link for a list of the priority pollutants: https://epa.ohio.gov/static/Portals/35/pretreatment/Pretreatment_Program_Priority_Pollutant_Detection_Limits.pdf.) In accordance with ORC 6111.03(J)(3), the Director established these WQBELs after considering, to the extent consistent with the Federal Water Pollution Control Act, evidence relating to the technical feasibility and economic reasonableness of removing the polluting properties from those wastes and to evidence relating to conditions calculated to result from that action and their relation to benefits to the people of the state and to

accomplishment of the purposes of this chapter. This determination was made based on data and information available at the time the permit was drafted, which included the contents of the timely submitted NPDES permit renewal application, along with any and all pertinent information available to the Director.

This public notice allows the permittee to provide to the Director for consideration during this public comment period additional site-specific pertinent and factual information with respect to the technical feasibility and economic reasonableness for achieving compliance with the proposed final effluent limitations for these parameters. The permittee shall email to epa.dswcomments@epa.ohio.gov (preferred method) or deliver or mail this information to:

**Ohio Environmental Protection Agency
Attention: Division of Surface Water
Permits Processing Unit
P.O. Box 1049
Columbus, Ohio 43216-1049**

Should the applicant need additional time to review, obtain or develop site-specific pertinent and factual information with respect to the technical feasibility and economic reasonableness of achieving compliance with these limitations, a written request for any additional time shall be sent to the above address no later than 30 days after the Public Notice Date on Page 1.

Should the applicant determine that compliance with the proposed WQBELs for parameters other than the priority pollutants is technically and/or economically unattainable, the permittee may submit an application for a variance to the applicable WQS used to develop the proposed effluent limitation in accordance with the terms and conditions set forth in OAC 3745-33-07(D). The permittee shall submit this application to the above address no later than 30 days after the Public Notice Date.

Alternately, the applicant may propose the development of site-specific WQS pursuant to OAC 3745-1-39. The permittee shall submit written notification regarding their intent to develop site specific WQS for parameters that are not priority pollutants to the above address no later than 30 days after the Public Notice Date.

LOCATION OF DISCHARGE/RECEIVING WATER USE CLASSIFICATION

Deer Creek WRF is proposed to discharge to Deer Creek at River Mile 62.9. Figure 1 shows the approximate location of the facility.

This segment of the Deer Creek is described by Ohio EPA River Code: 02-300, Hydrologic Unit Code: 05060002-01-02, County: Madison, Ecoregion: Eastern Corn Belt Plains. The Deer Creek is designated for the following uses under Ohio's WQS (OAC 3745-1-09): Warmwater Habitat, Agricultural Water Supply, Industrial Water Supply, and Primary Contact Recreation.

Use designations define the goals and expectations of a waterbody. These goals are set for aquatic life protection, recreation use and water supply use, and are defined in the Ohio WQS (OAC 3745-1-07). The use designations for individual waterbodies are listed in rules -08 through -32 of the Ohio WQS. Once the goals are set, numeric WQS are developed to protect these uses. Different uses have different water quality criteria.

Use designations for aquatic life protection include habitats for coldwater fish and macroinvertebrates, warmwater aquatic life and waters with exceptional communities of warmwater organisms. These uses all meet the goals of the federal CWA. Ohio WQS also include aquatic life use designations for waterbodies which cannot meet the CWA goals because of human-caused conditions that cannot be remedied without causing fundamental changes to land use and widespread economic impact. The dredging and clearing of some small streams to support agricultural or urban drainage is the most common of these conditions. These streams are given Modified Warmwater or Limited Resource Water designations.

Recreation uses are defined by the depth of the waterbody and the potential for wading or swimming. Uses are defined for bathing waters, swimming/canoeing (Primary Contact Recreation) and wading only (Secondary Contact which are generally waters too shallow for swimming or canoeing).

Water supply uses are defined by the actual or potential use of the waterbody. Public Water Supply designations apply near existing water intakes so that waters are safe to drink with standard treatment. Most other waters are designated for agricultural water supply and industrial water supply.

FACILITY DESCRIPTION

Deer Creek WRF is projected to be completed in August 2028. The average design flow is proposed to be 5.0 million gallons per day (MGD) and will provide service to unincorporated areas of Madison County and a portion of the Village of Plain City, an estimated population of approximately 48,000. Deer Creek WRF is proposed to have the following treatment processes (Figure 2):

- Screening
- Grit removal
- Alum addition
- Activated sludge – oxidation ditch
- Biological nutrient removal
- Secondary clarification
- Ultraviolet disinfection
- Post-aeration

The MORWSD collection system will be 100% separate sewers. The facility does not have an approved pretreatment program.

Deer Creek WRF will utilize the following sewage sludge treatment processes (Figure 2):

- Polymer addition
- Physical dewatering – screw press
- Aerobic digestion
- Physical dewatering – rotary drum thickener

Treated sludge is planned to be land applied for beneficial use, hauled to a landfill, or transferred to another NPDES permit holder, to be reported under sludge monitoring stations 581, 586, and 588, respectively.

ASSESSMENT OF IMPACT ON RECEIVING WATERS

Pursuant to Section 303(d) of the Clean Water Act, each state is required to develop and submit a list to US EPA of its impaired and threatened waters (e.g. stream/river segments, lakes). For each water on the list, the state identifies the pollutant(s) causing the impairment, when known. The Richmond Ditch-Deer Creek watershed assessment unit, which includes the Deer Creek in the vicinity of Deer Creek WRF, is listed as impaired for aquatic life and recreation uses on Ohio's 303(d) list.

The attainment status of Deer Creek is reported in the *Ohio 2024 Integrated Water Quality Monitoring and Assessment Report*. An assessment of the impact of a permitted point source on the immediate receiving waters includes an evaluation of the available chemical/physical, biological, and habitat data which have been collected by Ohio EPA pursuant to the Five-Year Basin Approach for Monitoring and NPDES Reissuance. Other data may be used provided it was collected in accordance with Ohio EPA methods and protocols as specified by the Ohio WQS and Ohio EPA guidance documents. Other information which may be evaluated includes but is not limited to: NPDES permittee self-monitoring data; effluent and mixing zone bioassays conducted by Ohio EPA, the permittee, or U.S. EPA.

In evaluating this data, Ohio EPA attempts to link environmental stresses and measured pollutant exposure to the health and diversity of biological communities. Stresses can include pollutant discharges (permitted and unpermitted), land use effects, and habitat modifications. Indicators of exposure to these stresses include whole effluent toxicity tests, fish tissue chemical data, and fish health biomarkers (for example, fish blood tests).

Use attainment is a term which describes the degree to which environmental indicators are either above or below criteria specified by the Ohio WQS (OAC 3745-1). Assessing use attainment status for aquatic life uses primarily relies on the Ohio EPA biological criteria (OAC 3745-1-07; Table 7-1). These criteria apply to rivers and streams outside of mixing zones. Numerical biological criteria are based on measuring several characteristics of the fish and macroinvertebrate communities; these characteristics are combined into multimetric biological indices including the Index of Biotic Integrity and modified Index of Well-Being, which indicate the response of the fish community, and the Invertebrate Community Index, which indicates the response of the macroinvertebrate community. Numerical criteria are broken down by ecoregion, use designation, and stream or river size. Ohio has five ecoregions defined by common topography, land use, potential vegetation and soil type.

Three attainment status results are possible at each sampling location -full, partial, or non-attainment. Full attainment means that all of the applicable indices meet the biocriteria. Partial attainment means that one or more of the applicable indices fails meet the biocriteria. Nonattainment means that either none of the applicable indices meet the biocriteria or one of the organism groups indicates poor or very poor performance. An aquatic life use attainment table (see Table 1) is constructed based on the sampling results and is arranged from upstream to downstream and includes the sampling locations indicated by river mile, the applicable biological

indices, the use attainment status (i.e., full, partial, or non), the Qualitative Habitat Evaluation Index, and comments and observations for each sampling location.

The most recent data available for Deer Creek is from 2011 and is published in the *Biological and Water Quality Study of the Deer Creek Watershed, 2011*. Deer Creek is impaired for aquatic life use due to flow alteration (impoundment) downstream of the Choctaw Lake dam, which is upstream of the proposed Deer Creek WRF outfall location. Deer Creek is in full attainment of aquatic life use in the vicinity and downstream of the proposed outfall.

Deer Creek is impaired for recreation use in the vicinity of the proposed outfall, due to high levels of *E. coli*. Sources of bacteria in the area are likely associated with agricultural runoff and home sewage treatment systems. Proposed *E. coli* limits in the permit will ensure the WRF will not contribute to the impairment.

The full Integrated Report is available through the Ohio EPA, Division of Surface Water website at: <https://epa.ohio.gov/divisions-and-offices/surface-water/reports-data/ohio-integrated-water-quality-monitoring-and-assessment-report>

The *Biological and Water Quality Study of the Deer Creek Watershed, 2011* is available through the Ohio EPA, Division of Surface Water website at: <https://epa.ohio.gov/divisions-and-offices/surface-water/reports-data/biological-and-water-quality-reports>

DEVELOPMENT OF WATER-QUALITY-BASED EFFLUENT LIMITS

Determining appropriate effluent concentrations is a multiple-step process in which parameters are identified as likely to be discharged by a facility, evaluated with respect to Ohio water quality criteria, and examined to determine the likelihood that the existing effluent could violate the calculated limits.

Parameter Selection

The expected parameters to be discharged from Deer Creek WRF were evaluated. Effluent data will be evaluated after the facility is in operation and undergo a reasonable potential analysis at permit renewal.

Wasteload Allocation

For those parameters that require a WLA, the results are based on the uses assigned to the receiving waterbody in OAC 3745-1. Dischargers are allocated pollutant loadings/concentrations based on the Ohio WQS (OAC 3745-1). Most pollutants are allocated by a mass-balance method because they do not break down in the receiving water. By rule, mixing zones are not authorized for pollutants, such as mercury, which have been designated as bioaccumulative chemicals of concern (BCCs). For BCCs, the WLA is set equal to the respective WQS value.

The methodology employed generally depends on whether the facility is considered a direct discharger to a (1) free-flowing receiving water/stream or (2) non-flowing receiving water/lake. For free-flowing streams, WLAs for both average and maximum criteria are performed using the following general equation:

$$\text{Discharger WLA} = (\text{Downstream Flow} \times \text{WQS}) - (\text{Upstream Flow} \times \text{Background Concentration}).$$

Discharger WLAs are divided by the discharge flow so that the allocations are expressed as concentrations.

The applicable waterbody uses for this facility's discharge and the associated stream design flows are as follows:

Aquatic life (Warmwater Habitat)

Toxics (metals, organics, etc.)	Average	Annual 7Q10
	Maximum	Annual 1Q10
Ammonia	Average	Summer 30Q10
		Winter 30Q10
Agricultural Water Supply		Harmonic mean flow
Human Health (nondrinking)		Harmonic mean flow

Allocations are developed using a percentage of stream design flow as specified in Table 3, and allocations cannot exceed the Inside Mixing Zone Maximum (IMZM) criteria. The data used in the WLA are listed in Table 2 and Table 3. The WLA results to maintain all applicable criteria are presented in Table 4.

Whole Effluent Toxicity Wasteload Allocation

Whole effluent toxicity (WET) is the total toxic effect of an effluent on aquatic life measured directly with a toxicity test. Acute WET measures short term effects of the effluent while chronic WET measures longer term and potentially more subtle effects of the effluent. WQC for WET are 0.3 TUa for acute toxicity and 1.0 TUc for chronic toxicity (OAC 3745-1-44).

There are two separate reasonable potential procedures in Ohio - one for the Lake Erie watershed and one for the Ohio River watershed. Dischargers in the Ohio River watershed are assessed using OAC 3745-33-07(B). Dischargers in the Lake Erie watershed are assessed in accordance with the “Great Lakes Water Quality Initiative Implementation Procedures” contained in 40 CFR Part 132, Appendix F, Procedure 6.

The WLA calculations for WET are similar to those for aquatic life criteria - using the chronic toxicity unit (TUc) and 7Q10 flow for the average and the acute toxicity unit (TUa) and 1Q10 flow for the maximum. WET WLAs are based on meeting the values of 0.3 TUa and 1.0 TUc downstream of the discharge, and include any available dilution. These values are the levels of effluent toxicity that should not cause instream toxicity during critical low-flow conditions. WLAs for acute toxicity are capped at 1.0 TUa unless the discharger demonstrates that an Area-of-Initial-Mixing (AIM) exists under OAC 3745-1-06, or that one of the factors in OAC 3745-33-07(B)(5)-(9) allows a higher TUa limit to be granted. For the purposes of establishing WET limitations, the values of 1.0 TUa and 1.0 TUc are the most restrictive limitations that can be applied in NPDES permits [OAC 3745-33-07(B)(10)].

For Deer Creek WRF, the WLA values for outfall 001 are 0.3 TUa and 1.1 TUc.

The chronic toxicity unit (TUc) is defined as 100 divided by the estimate of the effluent concentration which causes a 25% reduction in growth or reproduction of test organisms (IC25):

$$TUc = 100/IC25$$

This equation applies outside the mixing zone for warmwater, modified warmwater, exceptional warmwater, coldwater, and seasonal salmonid use designations except when the following equation is more restrictive (*Ceriodaphnia dubia* only):

$$TUc = 100/\text{geometric mean of No Observed Effect Concentration and Lowest Observed Effect Concentration}$$

The acute toxicity unit (TUa) is defined as 100 divided by the concentration in water having 50% chance of causing death to aquatic life (LC50) for the most sensitive test species:

$$TUa = 100/LC50$$

This equation applies outside the mixing zone for all designated waters. Based on the above, a value of 1.0 TUa is the lowest value that can be calculated using the equation. TUa values between 0.2 and 1.0 are based on an interpolation of toxic effects where an LC50 cannot be identified.

When the acute WLA is less than 1.0 TUa, it may be defined as a ratio of the stream dilution to the effluent flow:

<u>Acute Dilution Ratio</u> <u>(downstream flow to discharger flow)</u>	<u>Allowable Effluent Toxicity</u> <u>(percent effects in 100% effluent)</u>
up to 2 to 1	30
greater than 2 to 1 but less than 2.7 to 1	40
2.7 to 1 to 3.3 to 1	50

Acute Dilution Ratio =
$$\frac{1Q10 + [\text{WWTP flow rate}]}{[\text{WWTP flow rate}]} = \frac{0.6 \text{ cfs} + 7.7 \text{ cfs}}{7.7 \text{ cfs}} = 1.1$$

The acute WLA for Deer Creek WRF can be expressed as 30 percent mortality in 100 percent effluent based on the dilution ratio of 1.1 to 1. If the acute dilution ratio is less than 3.3 to 1.0, and there is evidence that effluent values between 0.3 TUa and 1.0 TUa cause or contribute to violations of WQS, the permittee may be required to investigate and remediate toxicity in this range.

EFFLUENT LIMITS/MANAGEMENT DECISIONS

Table 5 presents the final effluent limits and monitoring requirements proposed for Deer Creek WRF outfall 001 and the basis for their recommendation.

Ammonia, Dissolved Oxygen, Total Suspended Solids, and CBOD5

The limits recommended for ammonia, dissolved oxygen, total suspended solids, and 5-day carbonaceous biochemical oxygen demand (CBOD5) are technology-based treatment standards included in OAC 3745-1-05, Best Available Demonstrated Control Technology (BADCT). The limit for dissolved oxygen is protective of water quality standards. The limits for ammonia were evaluated using a WLA procedure and were determined to be protective of water quality standards.

Oil & Grease, pH, and *E. coli*

Limits proposed for oil and grease, pH, and *Escherichia coli* are based on WQS (OAC 3745-1-35 and 37). Primary contact recreation *E. coli* standards apply to Deer Creek.

Total Phosphorus, Nitrate plus Nitrite, Total Inorganic Nitrogen, and Total Kjeldahl Nitrogen

The proposed total phosphorus and total inorganic nitrogen limits are based on best technical judgment that the provisions of Antidegradation in OAC 3745-1-05(C)(1) will be met. Antidegradation provisions require that existing uses shall be maintained and protected. Ohio EPA maintains an extensive biological and water quality dataset to monitor the status of aquatic life in Ohio streams. An analysis of that data shows increasing risk of eutrophication, a threat to aquatic communities, as total phosphorus and dissolved inorganic nitrogen concentrations increase in streams. Considering that risk analysis, the Deer Creek Watershed survey that identified already-elevated concentrations of phosphorus and nitrogen, and evaluations of the potential impact of the proposed discharge, the effluent limits that are proposed for both nutrients have been determined to pose a reduced risk based on the statewide dataset. This should allow the stream to exhibit conditions where biological attainment is likely to be protected.

Monthly average limits of 0.7 mg/L for total phosphorus and 5.7 mg/L for total inorganic nitrogen are proposed. Values for total inorganic nitrogen are calculated as the sum of ammonia and nitrate plus nitrite. Therefore,

monitoring for nitrate plus nitrite is proposed, to facilitate calculation of total inorganic nitrogen. Monitoring for total Kjeldahl nitrogen is also proposed.

Cadmium, Chromium, Copper, Dissolved Hexavalent Chromium, Free Cyanide, Lead, Mercury, Nickel, Total Filterable Residue, and Zinc

Monitoring is proposed for these parameters, as these are common pollutants of concern for publicly-operated treatment works.

A tracking provision is proposed in Part II of the permit that requires MORSWD to notify Ohio EPA if a sample result exceeds the preliminary effluent limit (Table 4) for these parameters. If certain conditions are met, MORSWD is required to take steps to reduce the discharge level of these pollutants.

Flow Rate and Water Temperature

Monitoring for these parameters is proposed in order to evaluate the performance of the treatment plant.

Dissolved Orthophosphate

Monitoring for dissolved orthophosphate (as P) is required by ORC 6111.03. This monitoring will further develop nutrient datasets that are used in stream and watershed assessments and studies. Because Ohio EPA monitoring, as well as other in-stream monitoring, for dissolved orthophosphate is taken by grab sample, grab samples are proposed for orthophosphate to maintain consistent data. The grab samples must be filtered within 15 minutes of collection using a 0.45-micron filter. The filtered sample must be analyzed within 48 hours.

Whole Effluent Toxicity

Annual chronic toxicity monitoring with the determination of acute endpoints is proposed consistent with the minimum monitoring requirements at OAC 3754-33-07(B)(11). The proposed monitoring will adequately characterize toxicity in the plant's effluent.

Additional Monitoring Requirements

Monitoring for multiple parameters is proposed at influent monitoring station 601 to facilitate determinations regarding pollutant reductions and future development of pretreatment local limits.

Monitoring for multiple parameters is proposed at upstream monitoring station 801 and downstream monitoring station 901 to assess the new facility's impact on the receiving stream and to facilitate use attainment determinations.

Additional monitoring requirements proposed at the final effluent, influent and upstream/downstream stations are included for all facilities in Ohio and vary according to the type and size of the discharge. In addition to permit compliance, this data is used to assist in the evaluation of effluent quality and treatment plant performance and for designing plant improvements and conducting future stream studies.

Sludge

Limits and monitoring requirements proposed for the disposal of sewage sludge by the following management practices are based on OAC 3745-40: land application (Station 581), removal to sanitary landfill (Station 586), or transfer to another facility with an NPDES permit (Station 588).

OTHER REQUIREMENTS

Sanitary Sewer Overflow Reporting

Provisions for reporting SSOs are again proposed in this permit. These provisions include: the reporting of the system-wide number of SSO occurrences on monthly operating reports; telephone notification of Ohio EPA and the local health department, and 5-day follow up written reports for certain high risk SSOs; and preparation of

an annual report that is submitted to Ohio EPA and made available to the public. Many of these provisions were already required under the “Noncompliance Notification”, “Records Retention”, and “Facility Operation and Quality Control” general conditions in Part III of Ohio NPDES permits.

Operator Certification and Operator of Record

Operator certification requirements have been included in Part II of the permit in accordance with rules effective on July 3, 2025 (OAC 3745-7). These rules require the Deer Creek WRF to have a Class IV wastewater treatment plant operator in charge of the sewage treatment plant operations discharging through outfall 001. These rules also require the permittee to designate one or more operator of record to oversee the technical operation of the treatment works and sewerage system.

Low-Level Free Cyanide Testing

Approved methods for free cyanide listed in 40 CFR 136 that have a quantification level lower than water quality-based effluent limits include: ASTM D7237-18(A), OIA-1677-09, and EPA 4500-CN-R-2021, ASTM D4282-15. These methods will allow Ohio EPA to make more reliable water quality-related decisions regarding free cyanide. Because the quantification levels are lower than any water quality-based effluent limits, it will also be possible to directly evaluate compliance with free cyanide limits.

Method Detection Limit Reporting

When submitting monitoring results in eDMR, the permittee must report all detected concentration values above the method detection limit (MDL), even if that value is below the quantification level. A detection above the MDL indicates the presence of a pollutant with strong confidence, which must be considered in reasonable potential analyses. Per OAC 3745-33-07(C)(2)(c), for the purpose of assessing compliance, any value reported below the quantification level shall be considered in compliance with an effluent limit.

Outfall Signage

Part II of the permit includes requirements for the permittee to place and maintain a sign at each outfall to the Deer Creek WRF providing information about the discharge. Signage at outfalls is required pursuant to OAC 3745-33-08(A).

NPDES Renewal Application Supplemental Effluent Data

The permittee must submit supplemental effluent data as part of the next NPDES permit renewal application. A minimum of three samples must be tested for 101 parameters, each collected within four and one-half years of the application submission date. The complete list of parameters to be analyzed is contained in Table 2 of "Appendix J to Part 122 - NPDES Permit Testing Requirements for Publicly Owned Treatment Works (§122.21(j))." Existing effluent data may be used, if available, in lieu of sampling performed solely for the purpose of the renewal application. See Part II of the permit for details.

Part III

Part III of the permit details standard conditions that include monitoring, reporting requirements, compliance responsibilities, and general requirements.

Stormwater Compliance

Parts IV, V, and VI have been included with the draft permit to ensure that any stormwater flows from the facility site are properly regulated and managed. A Stormwater Pollution Prevention Plan (SWPPP) is required to be developed within six months of facility construction completion. Either Parts IV, V, and VI are to be included in future NPDES permit renewals or, as an alternative to complying with Parts IV, V, and VI, the Deer Creek WRF may seek permit coverage under the general permit for industrial stormwater (permit # OHR000007) or submit a “No Exposure Certification.”

Figure 1. Location of Deer Creek WRF

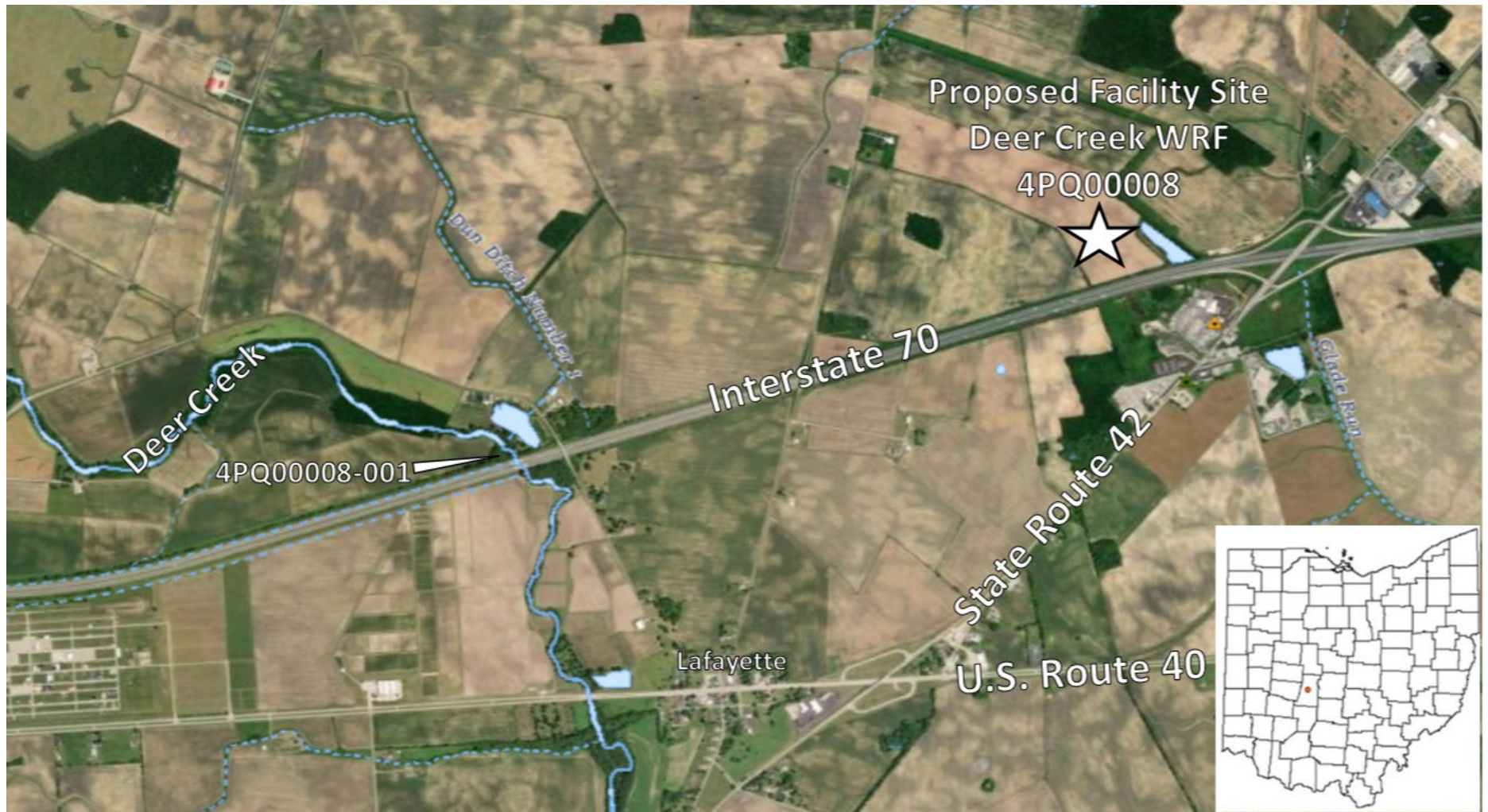


Figure 2. Diagram of Wastewater Treatment System

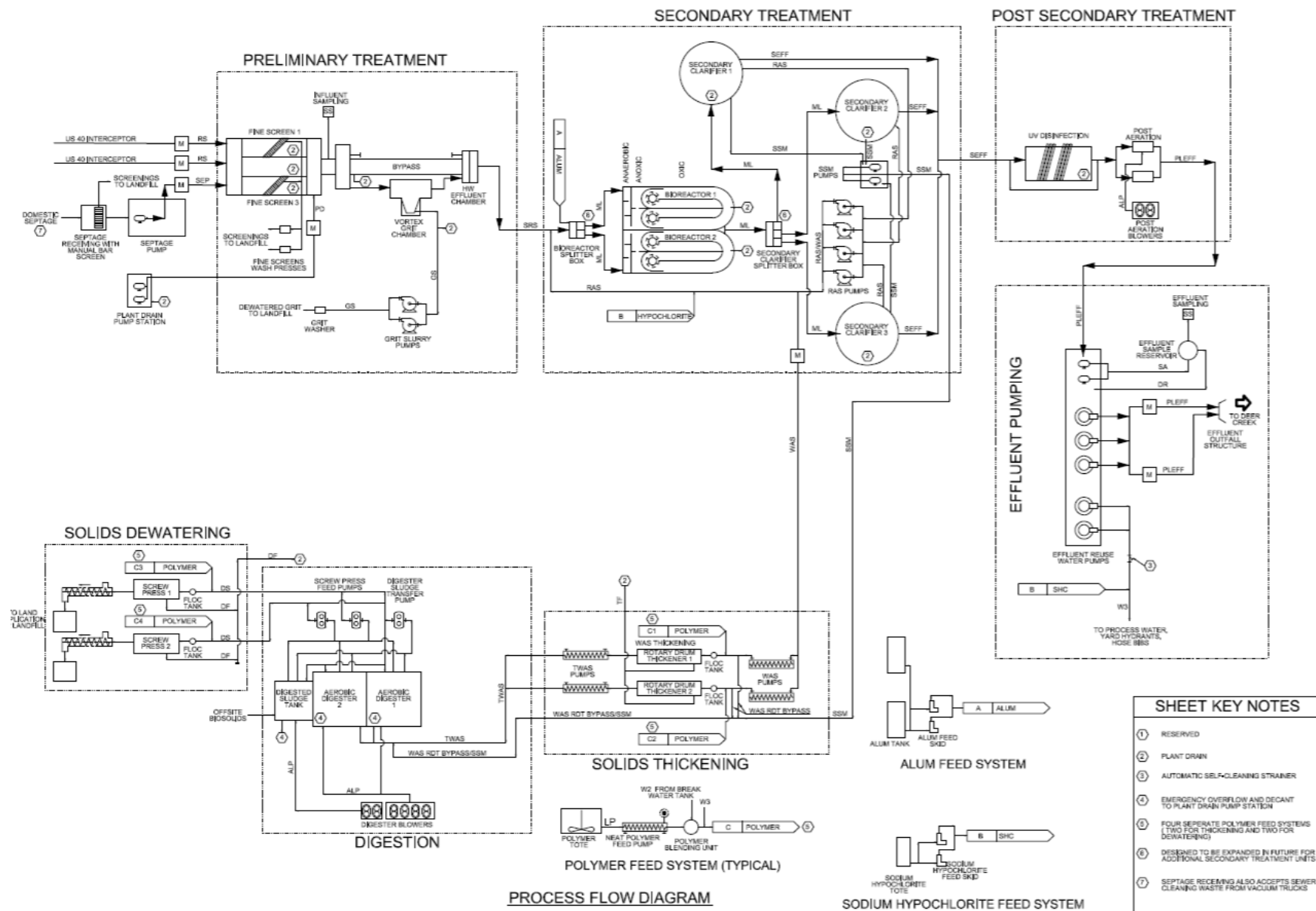


Table 1. Aquatic Life Use Attainment Table

Location	RM (Station)	Use	Status	Cause	Source
Deer Creek downstream of Choctaw Lake dam	66.1 (300400)	WWH	PARTIAL	Flow regime alterations	Impoundment
Deer Creek north of London at State Route 38	64.7 (V09Q11)	WWH	Full	--	--
Deer Creek at U.S. Route 40	62.0 (V09S25)	WWH	Full	--	--
Deer Creek at State Route 142	58.5 (V09W08)	WWH	Full	--	--
Deer Creek downstream of Madison Lake at Glate Run Rd	53.3 (V09Q08)	WWH	Full	--	--
Deer Creek at Big Plain-Circleville Rd	51.4 (V09S10)	WWH	Full	--	--
Deer Creek at Turkey Run	49.4 (V09Q07)	WWH	Full	--	--
Deer Creek at Robinson Rd	44.4 (V09S08)	WWH	Full	--	--
Deer Creek upstream of Anderson Rd	41.3 (V09Q06)	WWH	Full	--	--
Deer Creek upstream of Mt. Sterling WWTP at State Route 56	35.6 (V09P04)	EWH	Full	--	--
Deer Creek downstream of Mt. Sterling WWTP	35.5 (V09S06)	EWH	Full	--	--
Deer Creek at Yankeetown Rd	31.1 (V09S05)	EWH	Full	--	--
Deer Creek downstream of Deer Creek Lake dam	23.7 (V09W09)	EWH	PARTIAL	Nutrient/Eutrophication	Impoundment

Data gathered from *Biological and Water Quality Study of the Deer Creek Watershed, 2011*

Rd = road

RM = River mile

WWH = warmwater habitat

EWH = exceptional warmwater habitat

Table 2. Water Quality Criteria in the Study Area

Parameter	Units	Outside Mixing Zone Criteria				Inside Mixing Zone Maximum
		Average			Maximum	
		Human Health	Agri-culture	Aquatic Life	Aquatic Life	
Ammonia (Summer)	mg/L	--	--	1.2	--	--
Ammonia (Winter)	mg/L	--	--	3.3	--	--
Antimony	µg/L	640	--	190	900	1800
Arsenic	µg/L	--	100	150	340	680
Cadmium	µg/L	--	50	5.4	14	28
Chromium	µg/L	--	100	200	4100	8300
Chromium, Dissolved Hexavalent	µg/L	--	--	11	16	31
Copper	µg/L	--	500	22	36	73
Cyanide, Free	µg/L	400	--	12	46	92
Lead	µg/L	--	100	23	440	890
Mercury ^B	ng/L	12	10000	910	1700	3400
Molybdenum	µg/L	--	--	20000	190000	370000
Nickel	µg/L	4600	200	120	1100	2200
Nitrate + Nitrite	mg/L	--	100	--	--	--
Selenium	µg/L	4200	50	5	62	120
Silver	µg/L	--	--	1.3	9.1	18
Total Filterable Residue	mg/L	--	--	1500	--	--
Zinc	µg/L	26000	25000	280	280	560

^B = bioaccumulative chemical of concern

Table 3. Instream Conditions and Discharger Flow

Parameter	Units	Season	Value	Basis
Stream Flows				
1Q10	cfs	annual	0.6	USGS gage 03230745 (adj for DA)
7Q10	cfs	annual	0.8	USGS gage 03230745 (adj for DA)
30Q10	cfs	summer	1.1	USGS gage 03230745 (adj for DA)
		winter	5.7	USGS gage 03230745 (adj for DA)
Harmonic Mean	cfs	annual	9	Streamstats (DA = 31.8)
Mixing Assumption	%	average	100	
		maximum	100	
Hardness, OMZ	mg/L	annual	275	V09S25; n=5, 2011, mean
Hardness, IMZ	mg/L	annual	275	V09S25; n=5, 2011, mean
pH	S.U.	summer	7.92	RM 58.5-66.1, n=31 , 2011
		winter	8.01	Assumed same as summer
Temperature	°C	summer	24.1	RM 58.5-66.1, n=26 , 2011
		winter	2.1	V09W08, n = 1, 2011
Deer Creek WRF flow	cfs	annual	7.7361	NPDES Application Form 2A
Background Water Quality				
Ammonia (Summer)	mg/L		0	V09S25; 2011; n=5; 5<MDL;
Ammonia (Winter)	mg/L		0	Assumed same as summer
Antimony	µg/L		0	No representative data available.
Arsenic	µg/L		3.26	V09S25; 2011; n=5; 0<MDL; Mean
Cadmium	µg/L		0	V09S25; 2011; n=5; 5<MDL;
Chromium	µg/L		0	V09S25; 2011; n=5; 5<MDL;
Chromium, Dissolved Hexavalent	µg/L		0	No representative data available.
Copper	µg/L		2.22	V09S25; 2011; n=5; 0<MDL; Mean
Cyanide, Free	µg/L		0	No representative data available.
Lead	µg/L		0	V09S25; 2011; n=5; 5<MDL;
Mercury	ng/L		0	V09S25; 2011; n=5; 5<MDL;
Molybdenum	µg/L		0	No representative data available.
Nickel	µg/L		3.3	V09S25; 2011; n=5; 0<MDL; Mean
Nitrate + Nitrite	mg/L		1.78	V09S25; 2011; n=5; 0<MDL; Mean
Selenium	µg/L		0	V09S25; 2011; n=5; 5<MDL;
Silver	µg/L		0	No representative data available.
Total Filterable Residue	mg/L		365	V09S25; 2011; n=5; 0<MDL; Mean
Zinc	µg/L		0	V09S25; 2011; n=5; 5<MDL;

V09S25 = Ohio EPA ambient sampling station in Deer Creek at river mile 62

USGS = United States Geological Survey

DA = drainage area

MDL = analytical method detection limit

n = number of samples

Table 4. Summary of Effluent Limits to Maintain Applicable Water Quality Criteria

Parameter	Units	Outside Mixing Zone Criteria				Inside Mixing Zone Maximum
		Average			Maximum Aquatic Life	
		Human Health	Agri-culture	Aquatic Life		
Ammonia (Summer)	mg/L	--	--	1.37	--	--
Ammonia (Winter)	mg/L	--	--	5.73	--	--
Antimony	µg/L	1385	--	210	970	1800
Arsenic	µg/L	--	213	165	366	680
Cadmium	µg/L	--	108	6	15	28
Chromium	µg/L	--	216	221	4418	8300
Chromium, Dissolved Hexavalent	µg/L	--	--	12	17	31
Copper	µg/L	--	1079	24	39	73
Cyanide, Free	µg/L	865	--	13	50	92
Lead	µg/L	--	216	25	474	890
Mercury ^B	ng/L	12	10000	910	1700	--
Molybdenum	µg/L	--	--	22068	204736	370000
Nickel	µg/L	9948	429	132	1185	2200
Nitrate + Nitrite	mg/L	--	214	--	--	--
Selenium	µg/L	9086	108	5.5	67	120
Silver	µg/L	--	--	1.4	9.8	18
Total Filterable Residue	mg/L	--	--	1617	--	--
Zinc	µg/L	56248	54084	309	302	560

^B Bioaccumulative Chemical of Concern (BCC); no mixing zone allowed after 11/15/2010, WQS must be met at end-of-pipe, unless requirements for an exception are met as listed in OAC 3745-2-05(A)(2)(e)(ii)

Table 5. Final Effluent Limits for Outfall 001

Parameter	Units	Concentration		Loading (kg/day) ^a		Basis ^b
		Daily Maximum	30 Day Average	Daily Maximum	30 Day Average	
Water Temperature	°C	----- Monitor -----				M ^c
Dissolved Oxygen	mg/L	6.0 ^m	--	--	--	BADCT
TSS (summer)	mg/L	18 ^d	12	340 ^d	230	BADCT
Oil & Grease	mg/L	10	--	--	--	WQS
Ammonia (summer)	mg/L	1.5 ^d	1.0	28 ^d	19	BADCT
Ammonia (winter)	mg/L	4.5 ^d	3.0	85 ^d	57	BADCT
Total Kjeldahl Nitrogen	mg/L	----- Monitor -----				M
Inorganic Nitrogen	mg/L	--	5.7	--	110	AD/BTJ
Nitrate plus Nitrite	mg/L	----- Monitor -----				M
Total Phosphorus	mg/L	--	0.7	--	13	AD/BTJ
Orthophosphate	mg/L	----- Monitor -----				PMR
Nickel	µg/L	----- Monitor -----				M
Zinc	µg/L	----- Monitor -----				M
Cadmium	µg/L	----- Monitor -----				M
Lead	µg/L	----- Monitor -----				M
Chromium	µg/L	----- Monitor -----				M
Copper	µg/L	----- Monitor -----				M
Dissolved Hexavalent Chromium	µg/L	----- Monitor -----				M
<i>E. coli</i>	#/100 mL	284 ^d	126	--	--	WQS
Flow Rate	MGD	----- Monitor -----				M ^c
Mercury	ng/L	----- Monitor -----				M
Free Cyanide	µg/L	----- Monitor -----				M
Acute Toxicity, <i>Ceriodaphnia dubia</i>	TUa	----- Monitor -----				WET
Chronic Toxicity, <i>Ceriodaphnia dubia</i>	TUc	----- Monitor -----				WET
Acute Toxicity, <i>Pimephales promelas</i>	TUa	----- Monitor -----				WET
Chronic Toxicity, <i>Pimephales promelas</i>	TUc	----- Monitor -----				WET
pH, maximum	SU	9.0	--	--	--	WQS
pH, minimum	SU	6.5 ^m	--	--	--	WQS
Total Filterable Residue	mg/L	----- Monitor -----				M
CBOD5 (summer)	mg/L	15 ^d	10	280 ^d	190	BADCT

^a Effluent loadings based on average design discharge flow of 5.0 MGD.

^b Definitions:

AD = Antidegradation (OAC 3745-1-05)

BADCT = Best Available Demonstrated Control Technology, 40 CFR Part 122.29, and OAC 3745-1-05

BTJ = Best Technical Judgment

M = Division of Surface Water NPDES Permit Guidance 1: Monitoring frequency requirements for Sanitary Discharges

PMR = Phosphorus monitoring requirements (ORC 6111.03)

WET = Minimum testing requirements for whole effluent toxicity [OAC 3745-33-07(B)(11)]

WQS = Ohio Water Quality Standards (OAC 3745-1)

- ^c Monitoring of flow and other indicator parameters is specified to assist in the evaluation of effluent quality and treatment plant performance.
- ^d 7 day average limit.
- ^m minimum limit

Addendum 1. Acronyms

ABS	Anti-backsliding
BPJ	Best professional judgment
CFR	Code of Federal Regulations
CMOM	Capacity Management, Operation, and Maintenance
CONSWLA	Conservative substance wasteload allocation
CSO	Combined sewer overflow
CWA	Clean Water Act
DMR	Discharge Monitoring Report
DMT	Dissolved metal translator
IMZM	Inside mixing zone maximum
LTCP	Long-term Control Plan
MDL	Analytical method detection limit
MGD	Million gallons per day
NPDES	National Pollutant Discharge Elimination System
OAC	Ohio Administrative Code
Ohio EPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
ORSANCO	Ohio River Valley Water Sanitation Commission
PEL	Preliminary effluent limit
PEQ	Projected effluent quality
PMP	Pollution Minimization Program
PPE	Plant performance evaluation
SSO	Sanitary sewer overflow
TMDL	Total Daily Maximum Load
TRE	Toxicity reduction evaluation
TU	Toxicity unit
U.S. EPA	United States Environmental Protection Agency
WET	Whole effluent toxicity
WLA	Wasteload allocation
WPCF	Water Pollution Control Facility
WQBEL	Water-quality-based effluent limit
WQS	Water Quality Standards
WWTP	Wastewater Treatment Plant