

By:  Date: \_\_\_\_\_

Effective Date: January 1, 2022  
Expiration Date: December 31, 2026

12/9/2021

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERAL PERMIT AUTHORIZATION TO DISCHARGE  
NON-CONTACT COOLING WATER UNDER

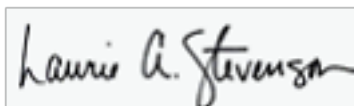
THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereafter referred to as "the Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Chapter 6111), discharges of wastewater, as defined in Part I.B. of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA", to discharge from the outfalls at the sites and to the receiving waters identified in the applicant's Notice of Intent application (NOI) on file with Ohio EPA in accordance with the conditions specified in Parts I through VI of this permit.

It has been determined that a lowering of water quality of various waters of the state associated with granting coverage under this permit is necessary to accommodate important social and economic development in the state of Ohio. Provision (D)(1)(j) of rule 3745-1-05 of the Ohio Administrative Code was applied to this application. This provision excludes the need for the submittal and subsequent review of technical alternatives and social and economic issues related to the degradation. Other rule provisions, however, including public participation and appropriate intergovernmental coordination were required and considered prior to reaching this decision.

Granting of permit coverage is conditioned upon payment of applicable fees and submittal of the Notice of Intent form. Permit coverage does not become effective until the permittee receives written notification from the Director that coverage is granted.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA. (See Part II.)



Laurie A. Stevenson  
Director

Total Pages: 38

## Part I. Coverage Under This Permit

A. Permit Area. This permit covers the entire state of Ohio.

B. Applicability. Ohio Revised Code Chapter 6111 provides that non-contact cooling water discharges from a point source to waters of the state are unlawful unless authorized by an NPDES permit. Entities with a non-contact cooling water discharge to waters of the state via a point source, including discharges through a municipal separate storm sewer system, are required to submit a permit application in accordance with Ohio EPA regulations. Entities that are eligible for coverage under this permit and that submit a Notice of Intent application (NOI) in accordance with the requirements of Part II of this permit are in compliance with the NPDES application requirements for such wastewater discharges after Ohio EPA acknowledges coverage. (See Part VI of this permit for a definition of non-contact cooling water.)

C. Eligibility.

1. This permit covers all existing and proposed point source non-contact cooling water discharges to waters of the state with the exception of those discharges identified under Part I.C.2. (See Part VI for a definition of non-contact cooling water.) Discharges eligible for coverage under this permit are:

a. with the exception of discharges described in Part I.C.1.b.ii, discharges (flows) that are less than five (5) percent of seven-day, ten-year low flow of the receiving stream, measured upstream from the discharge point. (See Part VI of this permit for a definition of the 7Q10 flow rate.) The discharge rate used in this comparison shall be the total flow rate from all outfalls proposed for coverage under this permit; and

b. discharges which can be placed into one of the following categories:

i. "once through cooling water" (e.g., the water passed through the main cooling condensers for the purpose of removing unwanted heat), or recirculated cooling water (e.g., the water that is passed through main condensers for the purpose of removing unwanted heat, then passed through a cooling device for heat rejection, and then recycled through the main condenser). This discharge may result from a variety of heat-transfer systems designed to remove unwanted heat as a result of industrial and commercial activities; or

ii. except for the dischargers identified under Part I.C.2., all new and existing geothermal system (See Part VI of this permit for a definition of geothermal system) discharges to waters of the state.

2. Limitations on Coverage. The following discharges are not authorized by this permit:

- a. discharges that are mixed with any other discharges that are not non-contact cooling water. Storm water associated with industrial activity that is mixed with the non-contact cooling water discharge, during wet weather conditions, is not covered by this general permit unless the non-contact cooling water can be monitored separately. Storm water discharges associated with industrial activity can be authorized separately by a storm water general permit;
- b. wastewater discharges associated with non-contact cooling water that are subject to an existing NPDES individual permit with a final effluent limitation or parameter that is not addressed by this general permit and that exhibits the reasonable potential to cause or contribute to an exceedance of Ohio Water Quality Standards;
- c. discharges for which the Director requests an individual permit application;
- d. wastewater discharges associated with non-contact cooling water that the Director has determined to have the reasonable potential to cause or contribute to an exceedance of Ohio Water Quality Standards, including discharges that require thermal load limits or maximum temperature limits as part of a thermal management requirement;
- e. cooling tower blowdown, boiler blowdown, and air compressor condensate;
- f. non-contact cooling water discharges (flows), except for geothermal discharges, that are greater than 5 percent of the seven-day, ten-year low flow (7Q10) of the receiving stream, measured upstream from the discharge point;
- g. non-contact cooling water discharged to combined or sanitary sewer systems;
- h. cooling water systems that are not isolated from all other pipelines;
- i. wastewater discharges that take place within 500 yards of a surface water intake and cannot meet Ohio's public water supply standards;
- j. wastewater discharges to the Ohio River that cannot meet public water supply standards at the point of discharge;
- k. with the exception of existing discharges, any non-contact cooling water discharged to outstanding state waters, superior high quality waters or outstanding national resource waters, other than Lake Erie, as defined by and identified in rule 3745-1-05 of the Ohio Administrative Code, or direct tributaries to these waters within one mile of these waters. Existing discharges are defined as discharges which are currently covered under an existing individual or general NPDES permit, or discharges which began prior to July 1, 1993;

l. discharges that contain a total concentration of volatile organic compounds greater than 100 ug/l (monthly average). Volatile organic compounds are those chemicals with Henry's Law Constants greater than 0.001, and water solubilities less than 8000 mg/l. These include, but are not limited to, the following chemicals:

Benzene  
Carbon Disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chloromethane  
Chloroform  
Dibromochloromethane  
Dichlorodifluoromethane  
1,1-Dichloroethane  
1,2 - Dichloroethane  
1,1-Dichloroethene (1,1-Dichloroethylene)  
cis-1,2-Dichloroethene (cis - 1,2 - Dichloroethylene)  
trans - 1,2 - Dichloroethene (trans - 1,2 - Dichloroethylene)  
1,2 - Dichloropropane  
1,3 - Dichloropropene (1,3 - Dichloropropylene)  
Ethylbenzene

n - Hexane  
Methylene Chloride (Dichloromethane)  
Styrene  
1,1,1,2 - Tetrachlorethane  
1,1,2,2 - Tetrachloroethane  
Tetrachloroethene (Tetrachloroethylene)  
Toluene  
1,1,1 - Trichloroethane  
1,1,2 - Trichloroethane  
Trichloroethene (Trichloroethylene)  
Trichlorofluoromethane  
1,2,3 - Trichloropropane  
Vinyl Chloride (Chloroethene, Chloroethylene)  
Xylenes

m. wastewater discharges for chlorine and/or bromine which exceed:

For total residual chlorine:

- i. 0.038 mg/l for discharges greater than or equal to two hours per day in duration; or
- ii. 0.2 mg/l for discharges less than two hours per day in duration.

For total residual oxidants:

- i. 0.0048 mg/l for discharges greater than or equal to two hours per day in duration; or
- ii. 0.025 mg/l for discharges less than two hours per day in duration.

If the requirements for total residual chlorine or total residual oxidants are exceeded, coverage under this general permit (with regard to this limitation only) may be granted if the applicant installs de-halogenation equipment designed to meet the discharge concentrations above within six months after coverage under the general permit is authorized. The quantification level for total residual chlorine and total residual oxidants is 0.05 mg/l; therefore, any sample result less than or equal to 0.05 mg/l is deemed to be in compliance with the limits of 0.038 mg/l and 0.0048 mg/l. The following signed statement from the applicant must be submitted with the Notice of Intent if de-chlorination equipment will be installed:

"I certify that the \_\_\_\_\_ [facility name] will install and operate de-halogenation equipment no later than six months after coverage under the Non-Contact Cooling Water general permit is authorized for the discharge from this facility. If necessary, the facility will submit a Permit to Install (PTI) to the appropriate Ohio EPA district office. The de-halogenation equipment will be operated to meet the requirements in Part I.C.3.m. of the general permit."

\_\_\_\_\_ [signature of authorized representative]

- n. facilities obtaining cooling water from a surface water intake that have design intake flow rates equal to or greater than 2 MGD or have been determined to have adverse environmental impact by the Director;
- o. facilities discharging to a lake other than Lake Erie;
- p. discharges of antifreeze chemicals and heat transfer fluids other than water;
- q. geothermal discharges that do not meet the temperature increase limit in Part III, Item D of this permit;
- r. geothermal discharges from an aquifer connected to a natural salt deposit;
- s. discharges of pollutants associated with well maintenance activities or heat exchanger cleaning;
- t. discharge to waters classified as Coldwater Habitat or Exceptional Warmwater Habitat; and
- u. discharges to groundwater.

3. The permittees' methods of obtaining cooling water have been evaluated using available information. Based on best professional judgment, Ohio EPA has determined that the permittees meet Best Technology Available (BTA) to minimize adverse environmental impact in accordance with Section 316(b) of the federal Clean Water Act (33 U.S.C. section 1326) due to the low withdrawal rates.

a. The permittee shall give 90 days advance notice to the Ohio EPA, Central Office, of any planned changes in the location, design, operation, or capacity of the cooling water intake structure.

b. Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act.

D. Authorization.

1. To be authorized to discharge under this general permit, non-contact cooling water dischargers must submit:

a. an NOI in accordance with the requirements of Part II of this permit, using an NOI application form provided by the Director. (The NOI application form and instructions for completing the form are available on the following internet website by clicking on "Applying for Coverage":

<http://www.epa.ohio.gov/dsw/permits/gpfact.aspx>

b. any other information which the permittee deems will be important and/or helpful to characterize the discharge and the review of the submittal. (See Part II.C.2.)

2. After the NOI form and any accompanying information is reviewed, Ohio EPA will notify the permittee regarding eligibility for coverage under this general permit.

3. The Director may require submittal of an application for an individual NPDES permit based on a review of the NOI or other information.

4. The authorization to discharge under this permit is conditioned on payment of applicable annual fees listed in paragraph 3745-11(L)(4)(c) of the Ohio Revised Code.

## Part II. Notice of Intent Requirements

### A. Deadlines for Notification.

1. No NOIs will be accepted prior to the effective date of this permit.
2. Persons with an existing discharge who intend to obtain coverage under this general permit shall submit an NOI in accordance with the requirements of this part within 45 days of the effective date of this permit (see Part V.F.3.).
3. Persons that begin discharging wastewater associated with non-contact cooling water after the effective date of this permit shall submit an NOI in accordance with the requirements of this part 45 days prior to commencing discharge, unless permission for a shorter time frame has been granted by Ohio EPA.
4. Coverage under the general permit is transferable. Ohio EPA must be notified in writing at least 60 days prior to any proposed transfer of the general permit (see Part V.E. for transfer requirements).
5. An operator of a facility with a wastewater discharge associated with non-contact cooling water may submit an NOI in accordance with the requirements of this part after the dates referenced in Parts II.A.1. or II.A.2. of this permit. In such instances, Ohio EPA may bring an enforcement action for any discharges of wastewater associated with non-contact cooling water that have occurred on or after the dates specified in Parts II.A.1. or II.A.2.

### B. Persons to Submit an NOI Application.

Each applicant seeking coverage under the general permit must submit an NOI application to the Ohio EPA in accordance with the requirements below, with exception of geothermal discharges of less than 100,000 gallons per day.

### C. Contents of Notice of Intent and Supplementary Information.

1. The applicant shall complete and submit an approved Notice of Intent (NOI) form provided by Ohio EPA. The NOI shall include the information required by the NOI form and its instruction sheet. Failure to follow the NOI instructions may result in the NOI being returned to the applicant. The NOI electronic application form is available through the Ohio EPA eBusiness Center at:  
<https://ebiz.epa.ohio.gov/>

Submission through the Ohio EPA eBusiness Center will require establishing an Ohio EPA eBusiness Center account and obtaining a unique Personal Identification Number (PIN) for final submission of the NOI. Existing eBusiness Center account holders can access the NOI form through their existing account and submit using their existing PIN.

[http://epa.ohio.gov/portals/35/edmr/doc/STREAMSGuide%20\(Dashboard\).pdf](http://epa.ohio.gov/portals/35/edmr/doc/STREAMSGuide%20(Dashboard).pdf)

2. Supplementary information required to be submitted with the NOI:

- a. For all applicants, a minimum of one (1) discharge monitoring result for total phosphorus.
- b. For applicants who obtain water directly from ground water sources, the results of effluent analyses, including metals and volatile organic compounds of the wastewater discharged. The list of volatile organic compounds to be monitored is shown in Part I.C.2.1. of this permit. Monitoring results shall include data for arsenic, barium, cadmium, chromium, copper, dissolved solids, iron, lead, nickel, selenium, strontium, and zinc;
- c. For applicants obtaining water from a public water supply source, the results of a metals analysis of the wastewater discharged. Metals to be monitored under this provision shall include copper, lead, and zinc;
- d. For applicants obtaining water from a surface water intake, the maximum daily intake flow rate, the average daily intake flow rate, and the percentage of intake water used for cooling purposes.
- e. Discharge monitoring results for total residual chlorine and/or total residual oxidants.
- f. Monitoring results shall be representative of the applicant's wastewater discharge.
- g. If available, any representative data that may be used to characterize the temperature of the wastewater discharge.

D. Additional Information to Apply for Coverage. In addition to the NOI, the applicant shall also submit any other required information in accordance with Part I.D.1.

E. Where to Submit. Facilities that discharge wastewater associated with non-contact cooling water must use the NOI form approved by the Director of the Ohio EPA referenced above. NOIs must be signed in accordance with Part V.D of this permit. Payment in the amount designated on the form can be electronically submitted through the agency eBusiness Center ePay service. Instructions on submitting fee payments via the ePay service can be found here:

<http://epa.ohio.gov/portals/35/edmr/doc/ePAYwalkthrough.pdf>



F. Additional Notification.

1. Facilities that discharge wastewater associated with non-contact cooling water through a municipal separate storm sewer system shall, in addition to filing copies of the NOI in accordance with Part II.E, also submit signed copies of the NOI to the operator of the municipal separate storm sewer system through which they discharge. (See Part VI of this permit for a definition of a municipal separate storm sewer system.)

2. Facilities with the capacity to withdrawal more than 100,000 gallons per day must register the facility with the Ohio Department of Natural Resources, Division of Water Resources. Registered facilities must also complete and submit an annual report of all water withdrawn in each calendar year. Reports must be submitted even if no water was withdrawn. These reports are due by March 1st of each year.

The required forms and additional information are available at the following website:

<https://ohiodnr.gov/wps/portal/gov/odnr/buy-and-apply/regulatory-permits/water-use-man>

G. Renotification for Permit Renewal. In order to receive authorization to discharge beyond the expiration date of this general permit (i.e. renew existing general permit coverage), the permittee shall notify the Director of the intent to be covered by the new general permit by submitting a new NOI within 45 days after the effective date of the renewed general permit.

H. Notice of Termination (NOT). When all wastewater discharges associated with non-contact cooling water that are authorized by this permit are eliminated, the operator of the facility must submit a Notice of Termination in accordance with Part V.D of this permit.

The Notice of Termination shall include the information required by the NOT form and will be submitted through the Ohio EPA eBusiness Center Division of Surface Water NPDES Permit Application STREAMS service using the online form provided by the Director of the Ohio EPA.

<https://ebiz.epa.ohio.gov/login.html>

Submission through the Ohio EPA eBusiness Center will require establishing an Ohio EPA eBusiness Center account and obtaining a unique Personal Identification Number (PIN) for final submission of the NOT. Existing eBusiness Center account holders can access the NOT form through their existing account and submit using their existing PIN.

[http://epa.ohio.gov/portals/35/edmr/doc/STREAMSGuide%20\(Dashboard\).pdf](http://epa.ohio.gov/portals/35/edmr/doc/STREAMSGuide%20(Dashboard).pdf)

Part III - Final Effluent Limits and Monitoring Requirements

A. Non-contact cooling water (excluding geothermal) discharges with a flow less than 10,000 gallons per day (gpd). During the period beginning on the effective date of this permit and lasting until the expiration date, permittees with an average flow rate less than 10,000 gallons per day (0.01 MGD) are authorized to discharge in accordance with the following limitations and monitoring requirements.

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
00011 - Water Temperature - F	-	-	-	-	-	-	-	1/Month	Maximum	All
00056 - Flow Rate - GPD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
34044 - Oxidants, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
50060 - Chlorine, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All

Notes for Effluent Table 001:

a. The water temperature to be reported shall be representative of normal operating conditions. The use of a maximum-indicating thermometer is acceptable. The maximum temperature measured during each month shall be reported.

b. Water treatment additives - See Part IV, Item D.

c. Total Residual Oxidants (TRO):

- 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases bromine, or a combination of bromine and chlorine;
- 2) Monitoring is required once per month during months when the water treatment additive(s) are used;
- 3) Sampling for TRO shall be performed during bromination.

d. Total Residual Chlorine (TRC):

- 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases chlorine, but not bromine;
- 2) Monitoring is required once per month during months when the water treatment additive(s) are used;
- 3) Monitoring is not required for months when monitoring is performed for TRO; and

4) Sampling for TRC shall be performed during chlorination, but not when bromine is used.

e. Analyses for TRO and TRC are to be performed by amperometric titration or Orion Residual Chlorine Electrode during chlorination and/or bromination.

f. TRO and TRC. The following limits apply to TRO and TRC beginning six months after coverage under this permit is authorized. If the requirements for TRO or TRC are exceeded, coverage may be granted if the applicant installs de-halogenation equipment designed to meet discharge limits. Please see Part I.C.2.m.

For total residual oxidants:

- 1) 0.0048 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.025 mg/L for discharges less than two hours per day in duration

For total residual chlorine:

- 1) 0.038 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.2 mg/L for discharges less than two hours per day in duration

g. Estimated flows must be reasonably accurate. Flows can be estimated by the use of a weir or flume (or other metering device), bucket-and-stopwatch measurements, integrating timers on pumps, and/or application of flow versus head curves.

Part III - Final Effluent Limits and Monitoring Requirements

B. Non-contact cooling water (excluding geothermal) discharges with a flow greater than or equal to 10,000 gpd and less than 100,000 gpd. During the period beginning on the effective date of this permit and lasting until the expiration date, permittees with an average flow rate greater than or equal to 10,000 gallons per day (or 0.01 MGD) and less than 100,000 gallons per day (0.1 MGD) are authorized to discharge in accordance with the following limitations and monitoring requirements.

Table - Final Outfall - 002 - 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			
00011 - Water Temperature - F	-	-	-	-	-	-	-	1 / 2 Weeks	Maximum	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1 / 2 Weeks	Grab	All
34044 - Oxidants, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1 / 2 Weeks	24hr Total Estimate	All
50060 - Chlorine, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All

Notes for Effluent Table 002:

a. The water temperature to be reported shall be representative of normal operating conditions. The use of a maximum-indicating thermometer is acceptable. The maximum temperature measured during each 2-week period shall be reported.

b. Water treatment additives - See Part IV, Item D.

c. Total Residual Oxidants (TRO):

- 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases bromine, or a combination of bromine and chlorine;
- 2) Monitoring is required once per month during months when the water treatment additive(s) are used;
- 3) Sampling for TRO shall be performed during bromination.

d. Total Residual Chlorine (TRC):

- 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases chlorine, but not bromine;
- 2) Monitoring is required once per month during months when the water treatment additive(s) are used;

- 3) Monitoring is not required for months when monitoring is performed for TRO; and
- 4) Sampling for TRC shall be performed during chlorination, but not when bromine is used.

e. Analyses for TRO and TRC are to be performed by amperometric titration or Orion Residual Chlorine Electrode during chlorination and/or bromination.

f. TRO and TRC. The following limits apply to TRO and TRC beginning six months after coverage under this permit is authorized. If the requirements for TRO or TRC are exceeded, coverage may be granted if the applicant installs de-halogenation equipment designed to meet discharge limits. Please see Part I.C.2.m.

For total residual oxidants:

- 1) 0.0048 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.025 mg/L for discharges less than two hours per day in duration

For total residual chlorine:

- 1) 0.038 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.2 mg/L for discharges less than two hours per day in duration

g. Estimated flows must be reasonably accurate. Flows can be estimated by the use of a weir or flume (or other metering device), bucket-and-stopwatch measurements, integrating timers on pumps, and/or application of flow versus head curves.

Part III - Final Effluent Limits and Monitoring Requirements

C. Non-contact cooling water (excluding geothermal) discharges with a flow greater than or equal to 100,000 gpd. During the period beginning on the effective date of this permit and lasting until the expiration date, permittees with an average flow rate greater than or equal to 100,000 gallons per day (0.1 MGD) are authorized to discharge in accordance with the following limitations and monitoring requirements.

Table - Final Outfall - 003 - 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			
00011 - Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
34044 - Oxidants, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All
50060 - Chlorine, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All

Notes for Effluent Table 003:

a. The water temperature to be reported shall be representative of normal operating conditions. The use of a maximum-indicating thermometer is acceptable. The maximum temperature measured during each week shall be reported.

b. Water treatment additives - See Part IV, Item D.

c. Total Residual Oxidants (TRO):

- 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases bromine, or a combination of bromine and chlorine;
- 2) Monitoring is required once per month during months when the water treatment additive(s) are used;
- 3) Sampling for TRO shall be performed during bromination.

d. Total Residual Chlorine (TRC):

- 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases chlorine, but not bromine;
- 2) Monitoring is required once per month during months when the water treatment additive(s) are used;
- 3) Monitoring is not required for months when monitoring is performed for TRO; and

4) Sampling for TRC shall be performed during chlorination, but not when bromine is used.

e. Analyses for TRO and TRC are to be performed by amperometric titration or Orion Residual Chlorine Electrode during chlorination and/or bromination.

f. TRO and TRC. The following limits apply to TRO and TRC beginning six months after coverage under this permit is authorized. If the requirements for TRO or TRC are exceeded, coverage may be granted if the applicant installs de-halogenation equipment designed to meet discharge limits. Please see Part I.C.2.m.

For total residual oxidants:

- 1) 0.0048 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.025 mg/L for discharges less than two hours per day in duration

For total residual chlorine:

- 1) 0.038 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.2 mg/L for discharges less than two hours per day in duration

g. Estimated flows must be reasonably accurate. Flows can be estimated by the use of a weir or flume (or other metering device), bucket-and-stopwatch measurements, integrating timers on pumps, and/or application of flow versus head curves.

Part III - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

D. Geothermal Discharges. During the period beginning on the effective date of this permit and lasting until the expiration date, permittees with geothermal discharges are authorized to discharge in accordance with the following limitations and monitoring requirements.

Table - Final Outfall - 004 - 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			
00011 - Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
34044 - Oxidants, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All
50060 - Chlorine, Total Residual - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All

Notes for Effluent Table 004:

- a. All geothermal discharges covered under this general permit shall report effluent data in accordance with this table.
- b. The monitoring requirements in the table above apply only to systems that are designed to discharge 100,000 gallons per day or more. Monitoring is not required for systems designed to discharge less than 100,000 gallons per day.
- c. The water temperature to be reported shall be representative of normal operating conditions. The use of a maximum-indicating thermometer is acceptable. The maximum temperature measured during each week shall be reported.
- d. Water treatment additives - See Part IV, Item D.
- e. Total Residual Oxidants (TRO):
  - 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling water system that releases bromine, or a combination of bromine and chlorine; and
  - 2) Monitoring is required once per month during months when the water treatment additive(s) are used.
- f. Total Residual Chlorine (TRC):
  - 1) Permittees are required to monitor for this parameter only if Ohio EPA has approved the use of a water treatment additive in the cooling



water system that releases chlorine, but not bromine; and

2) Monitoring is required once per month during months when the water treatment additive(s) are used.

g. TRO and TRC. The following limits apply to TRO and TRC beginning six months after coverage under this permit is authorized. If the requirements for TRO or TRC are exceeded, coverage may be granted if the applicant installs de-chlorination equipment designed to meet discharge limits. Please see Part I.C.2.m.

For total residual oxidants:

- 1) 0.0048 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.025 mg/L for discharges less than two hours per day in duration

For total residual chlorine:

- 1) 0.038 mg/L for discharges greater than or equal to two hours per day in duration; or
- 2) 0.2 mg/L for discharges less than two hours per day in duration

h. Estimated flows must be reasonably accurate. Flows can be estimated by the use of a weir or flume (or other metering device), bucket-and-stopwatch measurements, integrating timers on pumps, and/or application of flow versus head curves.

i. Narrative Limitations:

- 1) For discharges that are designed to discharge greater than 5,000 gallons per day, the temperature of the discharge from an open-loop geothermal system must be no more than 10 degrees Fahrenheit greater than the temperature of the groundwater source.
- 2) For discharges that are designed to discharge 5,000 gallons per day or less, the temperature of the discharge from an open-loop geothermal system must be no more than 15 degrees Fahrenheit greater than the temperature of the groundwater source.

#### Part IV. Special Conditions

- A. This permit may be modified, or alternatively, revoked and reissued to the permit holder, to comply with any applicable standards or regulations.
- B. Samples taken in compliance with the effluent monitoring requirements shall be collected following treatment (if provided) and prior to either direct or via storm sewer discharge to the receiving stream.
- C. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's performance.
- D. Written permission must be obtained from the director of the Ohio EPA prior to the use of any treatment additives discharged to waters of the state, except for those exempt in rule. If additives are being used that have not previously been approved, an approval must be obtained for continued use. Discharges of these additives must meet Ohio Water Quality Standards and shall not be harmful or inimical to aquatic life. Request for approvals shall be filed in accordance with OAC 3745-33-03(G) and should be filed at least forty-five days prior to use or immediately if the additive is currently being used. Application forms are available for download on the DSW website:  
  
<http://www.epa.ohio.gov/Portals/35/permits/Additive-Form.docx>
- E. It is understood by Ohio EPA that at the time this permit becomes effective, a specific analytical method is not approved under 40 CFR 136 to comply with the total residual oxidants monitoring requirements included in the permit. The permittee shall utilize amperometric titration as the analytical method, with a minimum detection level no greater than 0.01 mg/L.
- F. Ohio EPA may require the permittee to monitor volatile organic compounds as defined in Part I.C.2.1 based upon information submitted by the permittee with the NOI application and information available to the Director on groundwater quality in the area of the utilized well(s). Parameters to monitor and monitoring frequency for selected parameters will be established by Ohio EPA after the NOI application is submitted and sent to the permittee at the time general permit coverage is authorized.

## Part V. Standard Permit Conditions

### A. Duty to Comply.

1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Ohio Revised Code Chapter 6111 and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

### 2. Penalties for Violations of Permit Conditions.

#### a. Criminal

i. Ohio Revised Code Chapter 6111 provides that any person who violates permit conditions is subject to a fine or imprisonment.

ii. False Statement. Ohio Revised Code Section 2921.13 provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under the Act, shall upon conviction be punished by a fine or by imprisonment for not more than six months, or both.

iii. 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.

b. Civil Penalties. Ohio Revised Code Chapter 6111 provides that any person who violates a permit condition is subject to a civil penalty.

B. Continuation of the Expired General Permit. Coverage under an expired general permit continues in force and effect until a new general permit is issued provided the NOI has been submitted within 45 days after the effective date of the renewed general permit.

C. Need to halt or reduce activity not a defense. 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 the conditions of this permit.

D. Signatory Requirements. All Notices of Intent, Notices of Termination, reports, certifications or information either submitted to the Director (and/or the operator of a municipal separate storm sewer system), or that this permit requires be maintained by the permittee, shall be signed as provided in the following paragraphs 1 through 2a.

1. All Notices of Intent and Notices of Termination shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) 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 and who has authority to sign documents on behalf of the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality: State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g. Regional Administrators of EPA).

2. All reports required by the permit and other information requested by the Director shall be signed by a person described in paragraph 1 above or by a duly authorized representative of that person. A person is a duly authorized representative only if all of the following apply:

a. The authorization is made in writing by a person described above and submitted to the Director.

b. 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 manager, operator, superintendent, or 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).

c. Changes to authorization. If an authorization under paragraph V.D.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph V.D.2. must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

d. Certification. Any person signing documents under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

E. Transfers. The Director may require the operator to apply for and obtain an individual NPDES permit as stated in Part V.F.

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. The permittee shall notify the succeeding owner or successor of the existence of this permit by a letter, a copy of which shall be forwarded to the Ohio EPA central office. The copy of that letter will serve as the permittee's notice to the Director of the proposed transfer. The copy of that letter shall be received by the Ohio EPA central office sixty days prior to the proposed date of transfer;
2. A written agreement containing a specific date for transfer of permit responsibility and coverage between the current and new permittee (including acknowledgement that the existing permittee is liable for violations up to that date, and that the new permittee is liable for violations from that date on) shall be submitted to the Ohio EPA central office within sixty days after receipt by the central office of the copy of the letter from the permittee to the succeeding owner;
3. The Director does not exercise his right within thirty days after receipt of the written agreement to notify the current permittee and the new permittee of his or her intent to revoke the permit and to require that a new NOI be filed; and
4. The new owner or successor receives written confirmation and approval of the transfer from the Director of the Ohio EPA.

At any time during the 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.

F. Requiring an individual permit or an alternative general permit.

1. The Director may require any person authorized by this permit to apply for and/or obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Director to take action under this paragraph. The Director may notify the operator in writing that an application for an individual permit is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. Individual permit applications shall be submitted to the appropriate Ohio EPA district office, Division of Surface Water. The Director may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application as required by the Director, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of last day of the period specified for application submittal. Any discharge past this date is illegal and subject to enforcement, unless the proper NPDES permit is obtained.

2. Any operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The operator shall submit an individual application (Form 1 and Form 2C, 2D, 2E, or 2F) with reasons supporting the request to the Director. Individual permit applications shall be submitted to the appropriate Ohio EPA district office, Division of Surface Water. The request may be granted by the issuance of any individual permit or an alternative general permit if the reasons cited by the owner or operator are adequate to support the request (see Part I.C).

3. When an individual NPDES permit is issued to an operator otherwise subject to this permit, or the owner or operator is authorized for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. If an individual permit holder believes the discharge could be covered by this general permit, the owner or operator must submit a NOI (see Part II C) for coverage under this general permit and request appropriate Ohio EPA district office, Division of Surface Water, to either revoke the existing individual permit or approve No Permit Requirement (NPR) for the existing individual permit.

G. Other Laws. No condition of this permit shall release the permittee from any responsibility or requirements under other statutes or regulations.

H. Inspection and Entry. The permittee shall allow the Director or an authorized representative of Ohio EPA or other designated representative or, in the case of a facility that discharges through a municipal separate storm sewer, an authorized representative of the municipal operator of the separate storm sewer receiving the discharge, upon the 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 this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Ohio Revised Code Chapter 6111 or the Clean Water Act, any substances or parameters at any location.

I. Upset

1. For definition of "upset," see Part VI., Definitions.
2. An upset constitutes an affirmative defense to an action brought for non-compliance with a technology-based permit effluent limit if the requirements of paragraph I.3. of this permit are met. No determination made during administrative review of claims that non-compliance was caused by upset, and before an action for non-compliance, is a final action subject to judicial review.
3. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. an upset occurred and that the permittee can identify the cause(s) of the upset;
  - b. the permitted facility was at the time being properly operated;
  - c. the permittee submitted notice of the upset as required by Part V., paragraph S of this permit; and,
  - d. the permittee complied with any remedial measures required under Part V., paragraph T of this permit.
4. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proving the conditions of paragraphs I.3.a through I.3.d.

J. General Effluent Limitations. The effluent shall, at all times, be free of substances:

1. In amounts that will settle to form putrescent, or otherwise objectionable, sludge deposits; or that will adversely affect aquatic life or water fowl;
2. Of an oily, greasy, or surface-active nature, and of other floating debris, in amounts that will form noticeable accumulations of scum, foam or sheen;
3. In amounts that will alter the natural color or odor of the receiving water to such degree as to create a nuisance;
4. In amounts that either singly or in combination with other substances are toxic to human, animal, or aquatic life and/or are rapidly lethal in the mixing zone;

5. In amounts that are conducive to the growth of aquatic weeds or algae to the extent that such growths become inimical to more desirable forms of aquatic life, or create conditions that are unsightly, or constitute a nuisance in any other fashion;

6. In amounts that will impair designated instream or downstream water uses.

K. 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 shall maintain in good working order and operate 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 shall effectively monitor 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 the Ohio EPA as specified in the Paragraph in this PART V entitled, "UNAUTHORIZED DISCHARGES".

L. Reporting

1. Monitoring data required by this permit shall be submitted on Ohio EPA 4500 Discharge Monitoring Report (DMR) forms using the electronic DMR (e-DMR) internet application. e-DMR allows permitted facilities to enter, sign, and submit DMRs on the internet. It is accessed from the Ohio EPA eBusiness Center. The eBusiness Center e-DMR information is found on the following web page:

<http://www.epa.ohio.gov/dsw/edmr/eDMR.aspx>

2. DMRs 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. For corporations - 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 the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which 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. For partnerships - a general partner;
- c. For a sole proprietorship - the proprietor; or
- d. For a municipality, state or other public facility - a principal executive officer, a ranking elected official or other duly authorized employee.

For e-DMR, the person signing and submitting the DMR will need to obtain an eBusiness Center account and Personal Identification Number (PIN). Additionally, Delegated Responsible Officials must be delegated by the Responsible Official, either on-line using the eBusiness Center's delegation function, or on a paper delegation form provided by Ohio EPA. For more information on the PIN and delegation processes, please view the following web page:

<http://www.epa.ohio.gov/dsw/edmr/eDMRpin.aspx>

3. DMRs submitted via e-DMR shall be transmitted to Ohio EPA by the 20th day of the month following the month-of-interest.
4. Regardless of the submission method, a paper copy of the submitted Ohio EPA 4500 DMR shall be maintained onsite for records retention purposes. (See Part V.O., RECORDS RETENTION.) For e-DMR users, view and print the DMR from the Submission Report Information page after each original or revised DMR is submitted. For submittals on paper, make a copy of the completed paper form after it is signed by a Responsible Official or a Delegated Responsible Official.
5. 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 Section 5. SAMPLING AND ANALYTICAL METHODS, the results of such monitoring shall be included in the calculation and reporting of the values required in the reports specified above.
6. 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 IV.O., RECORDS RETENTION.

M. Sampling and Analytical Methods. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored flow. Test procedures for the analysis of pollutants shall conform to regulation 40 CFR 136, "Test Procedures For The Analysis of Pollutants" unless other test procedures have been specified in this permit. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to insure accuracy of measurements.

N. 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 exact place and date of sampling (time of sampling not required on EPA 4500);
2. The person(s) who performed the sampling or measurements;
3. The date 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.

O. Records Retention. The permittee shall retain all of the following records for the wastewater treatment works for a minimum of three years, 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 plant 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 from the date of the sample, measurement, report, or application.

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 for retention of records shall start from the date of sample, measurement, report, or application.

P. 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 Ohio EPA Central Office. Both the Clean Water Act and Section 6111.05 Ohio Revised Code state that effluent data and receiving water quality data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Ohio Revised Code Section 6111.99.

Q. 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, and 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 kept by this permit.

R. Unauthorized Discharges.

1. Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:
  - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - b. 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 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
  - c. The permittee submitted notices as required under paragraph R.2. of this section.
2. Prior Notice
  - a. Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least ten days before the date of the bypass.
  - b. Unanticipated Bypass - The permittee shall submit notice of an unanticipated bypass as required in paragraph S.2.
3. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it has met the three conditions listed in paragraph R.1. of this section.
4. The permittee shall submit notice of an unanticipated bypass as required in Part V.S.
5. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded if that bypass is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs R.1. and R.2.

S. Noncompliance Notification.

1. Exceedance of a Daily Maximum Discharge Limit

a. The permittee shall report noncompliance that is the result of any violation of a daily maximum discharge limit for any of the pollutants listed by the Director in the permit by e-mail or telephone within twenty-four (24) hours of discovery.

The permittee may report to the appropriate Ohio EPA district office e-mail account as follows (this method is preferred):

Southeast District Office:	sedo24hournpdes@epa.ohio.gov
Southwest District Office:	swdo24hournpdes@epa.ohio.gov
Northwest District Office:	nwdo24hournpdes@epa.ohio.gov
Northeast District Office:	nedo24hournpdes@epa.ohio.gov
Central District Office:	cdo24hournpdes@epa.ohio.gov
Central Office:	co24hournpdes@epa.ohio.gov

The permittee shall attach a noncompliance report to the e-mail. A fact sheet and a blank noncompliance report form is available on the following web site:

<https://epa.ohio.gov/dsw/permits/individuals#153934582-monitoring-and-reporting>

Or, the permittee may report to the appropriate Ohio EPA district office by telephone toll-free between 8:00 AM and 5:00 PM as follows:

Southeast District Office:	(800) 686-7330
Southwest District Office:	(800) 686-8930
Northwest District Office:	(800) 686-6930
Northeast District Office:	(800) 686-6330
Central District Office:	(800) 686-2330
Central Office:	(614) 644-2001

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 limit(s) that has been exceeded;
- iii. The extent of the exceedance(s);
- iv. The cause of the exceedance(s);
- v. The period of the exceedance(s) including exact dates and times;
- vi. If uncorrected, the anticipated time the exceedance(s) is expected to continue; and,
- vii. Steps taken to reduce, eliminate or prevent occurrence of the exceedance(s).

## 2. Other Permit Violations

a. The permittee shall report noncompliance that is the result of any unanticipated bypass resulting in an exceedance of any effluent limit in the permit or any upset resulting in an exceedance of any effluent limit in the permit by e-mail or telephone within twenty-four (24) hours of discovery.

The permittee may report to the appropriate Ohio EPA district office e-mail account as follows (this method is preferred):

Southeast District Office:	sedo24hournpdes@epa.ohio.gov
Southwest District Office:	swdo24hournpdes@epa.ohio.gov
Northwest District Office:	nwdo24hournpdes@epa.ohio.gov
Northeast District Office:	nedo24hournpdes@epa.ohio.gov
Central District Office:	cdo24hournpdes@epa.ohio.gov
Central Office:	co24hournpdes@epa.ohio.gov

The permittee shall attach a noncompliance report to the e-mail. A fact sheet and a blank noncompliance report form is available on the following web site:

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Or, the permittee may report to the appropriate Ohio EPA district office by telephone toll-free between 8:00 AM and 5:00 PM as follows:

Southeast District Office:	(800) 686-7330
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Northwest District Office:	(800) 686-6930
Northeast District Office:	(800) 686-6330
Central District Office:	(800) 686-2330
Central Office:	(614) 644-2001

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;
  - vi. The name and telephone number of the person(s) who have knowledge of these circumstances;
  - vii. What remedial steps are being taken; and,
  - viii. The name and telephone number of the person(s) responsible for such remedial steps.
- b. The permittee shall report noncompliance that is the result of any spill or discharge which may endanger human health or the environment within thirty (30) minutes of discovery by calling the 24-Hour Emergency Hotline toll-free at (800) 282-9378. The permittee shall also report the spill or discharge by e-mail or telephone within twenty-four (24) hours of discovery in accordance with 2.a above.

3. When the telephone option is used for the noncompliance reports required by S.1. and S.2., the permittee shall submit to the appropriate Ohio EPA district office a confirmation letter and a completed noncompliance report within five (5) days of the discovery of the noncompliance. This follow up report is not necessary for the e-mail option which already includes a completed noncompliance report.

4. If the permittee is unable to meet any date for achieving an event, as specified in a schedule of compliance in their permit, the permittee shall submit a written report to the appropriate Ohio EPA district office within fourteen (14) days of becoming aware of such a situation. The report shall include the following:

- a. The 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.

5. The permittee shall report all other instances of permit noncompliance not reported under paragraphs S.1. or S.2. of this section on their monthly DMR submission. The DMR shall contain comments that include the information listed in paragraphs S.1. or S.2. as appropriate.

6. If the permittee becomes aware that it failed to submit an application, or submitted incorrect information in an application or in any report to the director, it shall promptly submit such facts or information.

T. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

U. 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 that the permittee knows or has reason to believe has occurred or will occur that would constitute cause for termination. 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. In addition to the reporting requirements under 40 CFR 122.41(1) 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 that would result in the discharge on a routine or frequent basis of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the "notification levels" specified in 40 CFR Sections 122.42(a)(1)(i) through 122.42(a)(1)(iv).

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

V. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under Section 307 (a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, 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.

W. Permit Revocation.

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

- a. violation of any terms or conditions of this permit;
- b. obtaining coverage under this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge; or
- d. obtaining coverage under an individual or alternative general permit is required. (See Part V.F.)

2. The filing of a request by the permittee for permit coverage revocation does not stay any permit condition. See Part II.F. for requirements regarding Notice of Termination (NOT).

X. Oil and Hazardous Substance Liability. With the exception of full compliance with the effluent limitations found in this general permit, 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 Section 311 of the Act.

Y. Solids Disposal. Collected screenings, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes into waters of the state. For publicly-owned treatment works, these shall be disposed of in accordance with the approved Ohio EPA Sludge Management Plan.

Z. 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.

AA. 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.

AB. State Laws and Regulations. Nothing in this permit shall be construed to preclude the institution of any legal action nor relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Act.

AC. 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.

AD. 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.

AE. Applicable Federal Rules. All references to 40 CFR in this permit mean the version of 40 CFR which is effective as of the effective date of this permit.

AF. Penalties for Violations of Permit Conditions.

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. ORC 6111.99 provides that any person who knowingly submits false information or records or fails to submit information or records shall be fined not more than \$25,000.
2. ORC 6111.99 provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$25,000 per violation.
3. ORC 6111.99 states that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$25,000 per violation.
4. ORC 6111.99 provides that any person who violates Sections 6111.04, 6111.042., 6111.05., or division (A) of Section 6111.07 of the Revised Code shall be fined not more than twenty-five thousand dollars or imprisoned not more than one year, or both.

AG. Pollution Prevention.

It is suggested that, if applicable, the permittee evaluate potential prevention methods and install the latest pollution prevention technology if it is economically feasible. If pollution prevention methods are currently being used, it is suggested that they be re-evaluated; the latest pollution prevention technology should be installed if applicable, necessary, and economically feasible.



Ohio EPA strongly encourages pollution prevention as the preferred approach for waste management. The first priority of pollution prevention is to eliminate the generation of wastes and pollutants at the source (source reduction). For those wastes or pollutants that are generated, the second priority is to recycle or reuse them in an environmentally sound manner.

You can benefit economically, help preserve the environment, and improve your public image by implementing pollution prevention programs. For more information about pollution prevention, including fact sheets and the Ohio Pollution Prevention and Waste Minimization Planning Guidance Manual, please contact the Ohio EPA, Office of Pollution Prevention at (614) 644-3469.

## Part VI - Definitions

"Absolute Limitations" Compliance with limitations having descriptions of "shall not be less than," "nor greater than," "shall not exceed," "minimum," or "maximum" shall be determined from any single value for effluent samples and/or measurements collected.

"Act" means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483, Pub. L. 97-117, and Pub. L. 100-433 U.S.C. 1251 et.seq.

"Blowdown" means the minimum discharge of recirculating water for the purpose of discharging materials contained in the water, the further build up of which would cause concentration in amounts exceeding limits established by best engineering practices.

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

"Daily load limitations" is the total discharge by weight during any calendar day. If only one sample is taken during a day, the weight of pollutant discharge calculated from it is the daily load.

"Daily concentration limitation" means the arithmetic average (weighted by flow) of all the determinations of concentration made during the day. If only one sample is taken during the day, its concentration is the daily concentration. Coliform bacteria limitations compliance shall be determined using the geometric mean.

"Design intake flow" means the value assigned (during the cooling water intake structure design) to the total volume of water withdrawn from a source waterbody over a specific time period.

"Director" means the director of Ohio EPA or an authorized representative.

"Flow-weighted composite sample" means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

"Geothermal heating and cooling system" or "Geothermal system" means heating or cooling systems that uses temperature differences between groundwater and ambient air temperature to heat or cool a building.

"Large and Medium municipal separate storm sewer system" means all municipal separate storm sewers that are either:

- (i) located in an incorporated place (city) with a population of 100,000 or more as determined by the latest Decennial Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR Part 122); or
- (ii) located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR Part 122); or
- (iii) owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium municipal separate storm sewer system.

"Mean annual flow" means the average of daily flows over a calendar year.

"MGD" means million gallons per day.

"mg/kg" means milligrams per kilogram dry weight.

"mg/l" means milligrams per liter.

"ug/l" means micrograms per liter.

"National Pollutant Discharge Elimination System (NPDES)" means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of the CWA. The term includes an "approved program".

"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 increments taken at regular intervals throughout the plant day.

"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 that 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 intervals throughout the plant day.

"NOI" means notice of intent to be covered by this permit (see Part II of this permit).

"Non-contact cooling water" means the water used to reduce temperature that does not come into contact with any raw material, intermediate product, waste product (other than heat), or finished product. Non-contact cooling water does not include any process waters or other type of wastewaters, nor is it exposed to anything but the inside of the pipe. Non-contact cooling water should be reasonably free from contaminants like metals, ammonia, organics, and total dissolved solids so that Ohio's water quality standards are not violated (see fact sheet for further explanation). For the purpose of this general permit, non-contact cooling water includes discharges from geothermal systems.

"NOT" means notice of termination (see Part II.F. of this permit).

"Point Source" means 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 storm water runoff.

"Process Wastewater" is water that comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, waste product, or wastewater.

"(Q7,10) Seven-day, ten-year low flow" means the minimum flow of a stream over a consecutive seven-day flow period that has a statistical frequency of recurrence of once in ten years, based on methods presented in "Low-flow characteristics of Ohio Streams," D. P. Johnson and K. D. Metzker, USGS Report 81-1195, Columbus, Ohio, 1981. If the applicant fails to provide the Q7,10 value, it will be determined by Ohio EPA.

"Quarterly sampling frequency" means the sampling shall be done in the months of March, June, August, and December.

"Receiving waters" means the waters of the state into which point and non-point sources flow.

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

"Semi-annual sampling frequency" means the sampling shall be done during the months of June and December.

"Severe property damage" means substantial physical damage to property, damage to the treatment facilities that would cause them to become inoperable, or substantial and permanent loss of natural resources that 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" means any substance that contains waste products or excrementitious or other discharge from the bodies of human beings or animals.

"Summer" shall be considered to be the period from May 1 through October 31.

"Time-weighted composite" means a composite sample consisting of a mixture of equal volume aliquots collected at a constant time interval.

"Tributary" means a stream flowing into a larger body of water.

"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.

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

"Winter" shall be considered to be the period from November 1 through April 30.

"Yearly sampling frequency" means the sampling shall be done in the month of September.

"7-day load limitation" is the total discharge by weight during any 7-day period divided by the number of days in that 7-day period that the facility was in operation. If only one sample is taken in a 7-day period, the weight of pollutant discharge calculated from it is the 7-day load. If more than one sample is taken during the 7-day period, the 7-day load is calculated by determining the daily load for each day sampled, totaling the daily loads for the 7-day period, and dividing by the number of days sampled.

"7-day concentration limitation" means the arithmetic average (weighted by flow) of all the determinations of daily concentration limitation made during the 7-day period. If only one sample is taken during the 7-day period, its concentration is the 7-day concentration limitation for that 7-day period. Coliform bacteria limitations compliance shall be determined using the geometric mean.

"30-day load limitation" is the total discharge by weight during any 30-day period divided by the number of days in the 30-day period that the facility was in operation. If only one sample is taken in a 30-day period, the weight of pollutant discharge calculated from it is the 30-day load. If more than one sample is taken during one 30-day period, the 30-day load is calculated by determining the daily load for each day sampled, totaling the daily loads or the 30-day period and dividing by the number of days sampled.

"30-day concentration limitation" means the arithmetic average (weighted by flow) of all the determinations of daily concentration made during the 30-day period. If only one sample is taken during the 30-day period, its concentration is the 30-day concentration for that 30-day period. Coliform bacteria limitations compliance shall be determined using the geometric mean.

"85 percent removal limitations" 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.