

**National Pollutant Discharge Elimination System (NPDES) Permit Program**

**PUBLIC NOTICE**

**NPDES Permit Modification 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.: 207821

Date of Issuance of Proposed Modification: November 14, 2024

Date of Public Notice: 8/13/2024

Effective Date of Modification: PROPOSED

Name and Address of Applicant: Cleveland-Cliffs Steel Corporation, 1801 Crawford Street,  
Middletown, OH, 45043

Name and Address of Facility  
Where Discharge Occurs: Ak Steel Corporation Middletown Works, 1801 Crawford Street,  
Middletown, OH, 45043, Butler County

Location of Discharge:

003	0 GPD	Lat: 39.475	Long: -84.372222
002	0 GPD	Lat: 39.472222	Long: -84.386111
015	0 GPD	Lat: 39.47413871	Long: -84.36792341
009	0 GPD	Lat: 39.472222	Long: -84.386111
004	0 GPD	Lat: 39.475	Long: -84.35
011	0 GPD	Lat: 39.502778	Long: -84.419444
006	0 GPD	Lat: 39.472056	Long: -84.374556
008	0 GPD	Lat: 39.475833	Long: -84.354722

Receiving Water: Dicks Creek, North Branch Dicks creek, Great Miami River

Purpose of this Modification: Updated Monitoring Tables and Compliance Schedule

The following statements apply to the modification. On the basis of preliminary staff review and application of standards and regulations, the Director of the Ohio Environmental Protection Agency has issued a proposed modification for the aforementioned discharge subject to certain effluent conditions and special conditions. The proposed modification is tentative but shall become final on the effective date unless: 1) an adjudication hearing is requested, 2) the Director withdraws and revises the proposed modification after consideration of the record of a public meeting, written comments, or statements, or 3) upon disapproval by the administrator of the U.S. Environmental Protection Agency.

Within thirty days of publication of this notice, any person may submit written comments, a statement as to why the proposed modification should be changed, a request for a public meeting on the proposed modification, and/or a request for notice of further actions concerning the modification. All communications timely received will be considered in the final formulation of the modification. If significant public interest is shown, a public meeting will be held prior to finalization of the modification.

*New or Revised Water Quality Based Effluent Limitations:* This proposed modification may contain new or revised 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 all pertinent data and information available to the Director at the time the modification was drafted.

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 any new or revised WQBEL(s). This information shall be submitted to the addresses listed below.

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 a new or revised 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 below.

Should the applicant determine that compliance with a new or revised 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 below.

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 below no later than 30 days after the date of this public notice.

Within 45 days of the issuance of the proposed modification, any officer or an agency of the state or of a political subdivision, acting in his representative capacity or any person aggrieved or adversely affected by issuance of it may request an adjudication hearing by submitting a written objection in accordance with Ohio Revised Code Section 3745.07. Following the finalization of the modification by the Director, any person who was a party to an adjudication hearing may appeal to the Environmental Review Appeals Commission.

All comments or statements on the proposed modification and all requests for notice of further actions should be submitted in person, by e-mail to: [epa.dswcomments@epa.ohio.gov](mailto:epa.dswcomments@epa.ohio.gov) or by mail to: Ohio Environmental Protection Agency, Division of Surface Water, Lazarus Government Center, Permits Processing Unit, 50 West Town Street., P. O. Box 1049, Columbus, Ohio 43216-1049. Applications, fact

sheets, proposed permits including proposed 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 above address any time between the hours of 8 a.m. and 4:30 p.m., Monday through Friday. Copies of public notices 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>

Requests for, and communications concerning, adjudication hearings and public meetings should be addressed to: Legal Records Section, Ohio Environmental Protection Agency, Lazarus Government Center, 50 West Town Street Ste 700, P. O. Box 1049, Columbus, Ohio 43266-0149, (614) 644-2115.

All communications should specify the OEPA permit number and public notice number.

Mailing lists are maintained for persons or groups who desire to receive public notice of proposed and final actions taken on applications for dischargers located in the state or in certain geographical areas. Persons or groups may have their names put on such a list by making a written request to the Permits Processing Unit. Persons or groups may also request copies of fact sheets, applications, or other documents pertaining to a specific application.



April 23, 2024

# PROPOSED

Ohio EPA permit No. 1ID00001\*MD  
Application No. OH0009997  
Effective Date:  
Facility Name: Ak Steel Corporation Middletown Works

Ak Steel Corporation Middletown Works  
Jim Kemp  
1801 Crawford Street  
Middletown, OH 45043

Dear Ladies and Gentlemen:

In accordance with Rule 3745-33-04 (D) of the Ohio Administrative Code (formerly Ohio EPA Regulation EP-31-06), the above referenced NPDES Permit is hereby modified as follows:

## Revision

- 1) Removed fictitious station 1ID00001099.
- 2) Revised the monitoring table footnotes in Part I, A for outfalls 1ID00001002, 1ID00001003, and 1ID00001015 to include reporting triggers for total filterable residue.
- 3) Revised the compliance schedule in Part I, C of the permit as it pertains to completed milestones and outfall 1ID00001099.
- 4) Removed outfall 1ID00001012.

All terms and conditions of the existing permit not recommended for modification by this document will remain in effect. Any modified term or condition contained in this modification shall supersede, on the date this modification is effective, the existing respective term or condition of the permit.

When the modification is effective, the Ohio EPA permit number will be changed to **1ID00001\*ND**. The application number will remain OH0009997. Attached is a copy of the updated NPDES permit.

Sincerely,

Anne M. Vogel  
Director

Ohio EPA Permit No.: 11D00001\*ND  
Application No. OH0009997

Modification Issue Date: November 14, 2024  
Modification Effective Date: PROPOSED  
Expiration Date: February 28, 2027

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),

Cleveland-Cliffs Steel Corporation

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the wastewater treatment works located at the AK Steel Middletown Works, 1801 Crawford Street, Middletown, Ohio, Butler County and discharging to the Great Miami River, North Branch of Dicks Creek and Dicks Creek in accordance with the conditions specified in Parts I, II, III, IV, V and VI of this permit.

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

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

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Anne M. Vogel  
Director

Total Pages: 73

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

1. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001001. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Fictitious Outfall/Station - 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			
00530 - Total Suspended Solids - mg/l	-	-	-	-	7073	-	2270	1/Week	Calculated	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	-	-	-	-	296	-	104	1/Week	Calculated	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	10.5	-	3.18	1/Week	Calculated	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	15.7	-	3.43	1/Week	Calculated	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Calculated	All

Notes for Station Number 11D00001001:

a. Outfall 11D00001001 is a compliance point established for the sum of the mass discharges from internal stations 11D00001613 and 11D00001614. There is no physical monitoring location for outfall 11D00001001.

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

2. During the period beginning on the effective date of this permit modification and lasting until February 28, 2025, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001002. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 002 – Initial

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00980 - Iron, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All

Notes for Station Number 11D00001002:

- a. The discharge from this outfall is limited to non-contact cooling water, storm water runoff and river/well water discharges from the coke plant area.
- b. For Total Filterable Residue sampling requirements, see Part II, Item H. If the monthly average concentration of total filterable residue exceeds 1,219 mg/L in any month, the permittee shall notify Ohio EPA Southwest District Office by including a statement in the “general comments” section of the eDMR.
- c. Zinc - See Part II, Item F.

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

3. During the period beginning on March 1, 2025 and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001002. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

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			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	4.1	-	-	2.7	25.0	-	16.5	1/Week	24hr Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	Winter
00980 - Iron, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All

Notes for Station Number 11D00001002:

- a. The discharge from this outfall is limited to non-contact cooling water, storm water runoff and river/well water discharges from the coke plant area.
- b. For Total Filterable Residue sampling requirements, see Part II, Item H. If the monthly average concentration of total filterable residue exceeds 1,219 mg/L in any month, the permittee shall notify Ohio EPA Southwest District Office by including a statement in the “general comments” section of the eDMR.
- c. Zinc - See Part II, Item F.



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

4. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001003. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

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			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00980 - Iron, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00981 - Selenium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
34044 - Oxidants, Total Residual - mg/l	0.0024	-	-	-	0.044	-	-	1/Quarter	Grab	Quarterly
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Total	All
50092 - Mercury, Total (Low Level) - ng/l	-	-	-	-	-	-	-	1/Quarter	Grab	Quarterly
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All

Notes for Station Number 11D00001003:

- a. The discharge from this outfall is limited to storm water runoff, discharge from station 11D00001631, station 11D00001803, river/well water and cooling tower blowdown.
- b. The Oil and Grease limit is a net concentration limit. The difference between the concentration measured at station 11D00001803 shall not exceed this level.

- c. Total Filterable Residue - See Part II, Item H. If the monthly average concentration of total filterable residue exceeds 821 mg/L in any month, the permittee shall notify Ohio EPA Southwest District Office by including a statement in the “general comments” section of the eDMR.
- d. Mercury - See Part II, Item I.
- e. Lead and Selenium - See Part II, Item F.
- f. Total Residual Oxidants - See Part II, Item O.
- g. The Total Residual Oxidants (TRO) limits are the maximum allowed at any time at the outfall. Report the maximum concentration of TRO detected during bromination for each day.
- h. TRO reflects the use of bromine compounds. Bromine can be used separately or in combination with chlorine. These limits are effective when bromine is used.
- i. For TRO, report on days when bromine or bromine and chlorine containing compounds are used. Report "AH" for TRO on the DMR if only chlorine is used and explain in the remarks section.
- j. Analyses for TRO are to be performed by low level amperometric titration, Standard Method 4500-CL E.

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

5. During the period beginning on the effective date of this permit modification and lasting through August 31, 2026, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001004. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 004 – Initial

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	2/Week	Grab	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00951 - Fluoride, Total (F) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
04270 - Chronic Toxicity, Daphnia Magna, 21 Day - % Affected	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
34044 - Oxidants, Total Residual - mg/l	0.0024	-	-	-	0.027	-	-	1 / 2 Weeks	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
61424 - Acute Toxicity, Daphnia magna, 48 Hours - % Affected	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All

Notes for Station Number 11D00001004:

- a. Effluent loadings based on an effluent flow of 2.92 MGD.
- b. The discharge from this outfall is limited to storm water runoff, discharges from station 11D00001641 and 11D00001642, river/well water, city water, and non-contact cooling water.
- c. For Total Filterable Residue sampling requirements, see Part II, Item H.

d. Biomonitoring - See Part II, Item M.

e. Total Residual Oxidants - See Part II, Item O.

f. The Total Residual Oxidants (TRO) limits are the maximum allowed at any time at the outfall. Report the maximum concentration of TRO detected during bromination for each day.

g. TRO reflects the use of bromine compounds. Bromine can be used separately or in combination with chlorine. These limits are effective when bromine is used.

h. For TRO, report on days when bromine or bromine and chlorine containing compounds are used. Report "AH" for TRO on the DMR if only chlorine is used and explain in the remarks section.

i. Analyses for TRO are to be performed by low level amperometric titration, Standard Method 4500-CL E.

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

6. During the period beginning on September 1, 2026 and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001004. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

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			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	2/Week	Grab	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00951 - Fluoride, Total (F) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
03599 - 48 Hour Daphnia Magna, Acute Toxicity - TUa	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
04270 - Chronic Toxicity, Daphnia Magna, 21 Day - % Affected	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
34044 - Oxidants, Total Residual - mg/l	0.0024	-	-	-	0.027	-	-	1 / 2 Weeks	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
70300 - Residue, Total Filterable - mg/l	-	-	-	2126	-	-	39188	2/Week	24hr Composite	All

Notes for Station Number 11D00001004:

- a. Effluent loading for total residual oxidants based on an effluent flow of 2.92 MGD. Effluent loading for total filterable residue based on an effluent flow of 4.87 MGD.
- b. The discharge from this outfall is limited to storm water runoff, discharges from station 11D00001641 and 11D00001642, river/well water, city water, and non-contact cooling water.
- c. For Total Filterable Residue sampling requirements, see Part II, Item H.
- d. Biomonitoring - See Part II, Item M.

e. Total Residual Oxidants - See Part II, Item O.

f. The Total Residual Oxidants (TRO) limits are the maximum allowed at any time at the outfall. Report the maximum concentration of TRO detected during bromination for each day.

g. TRO reflects the use of bromine compounds. Bromine can be used separately or in combination with chlorine. These limits are effective when bromine is used.

h. For TRO, report on days when bromine or bromine and chlorine containing compounds are used. Report "AH" for TRO on the DMR if only chlorine is used and explain in the remarks section.

i. Analyses for TRO are to be performed by low level amperometric titration, Standard Method 4500-CL E.

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

7. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001005. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 005 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	1950	-	977	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	-	-	-	-	227	-	-	1/Week	Grab	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	4.90	-	2.55	1/Week	24hr Composite	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	6.74	-	2.69	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Notes for station 11D00001005:

- a. The discharge from this outfall is limited to treated process wastewaters from continuous casting, vacuum degassing and hot forming operations.
- b. Sampling Station 11D00001005 is an internal station.

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

8. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001006. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 006 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Quarter	Grab	Quarterly
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	When Disch.	Grab	All

Notes for Station Number 11D00001006:

a. Monitoring and sampling for TSS and zinc shall be performed as required in Part V.B.

b. The benchmark concentrations listed below apply to this outfall. The benchmark concentrations are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. Benchmark monitoring data are for your use to determine the overall effectiveness of your control measures and to assist you in knowing when additional corrective action(s) may be necessary to comply with the control measures/best management practices in Part IV, Items A-C. See Part V.B for the dates when the benchmark concentrations become applicable.

Parameter	Benchmark
Total Suspended Solids	100 mg/l
Zinc	780 µg/l



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

9. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001008. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 008 – 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			
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	When Disch.	Grab	All
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	-	-	-	When Disch.	Grab	All

Notes for Station Number 11D00001008:

a. Monitoring and sampling shall be performed as required in Part V.B.

b. The benchmark concentrations listed below apply to this outfall. The benchmark concentrations are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. Benchmark monitoring data are for your use to determine the overall effectiveness of your control measures and to assist you in knowing when additional corrective action(s) may be necessary to comply with the control measures/best management practices in Part IV, Items A-C. See Part V.B for the dates when the benchmark concentrations become applicable.

Parameter	Benchmark
Copper	100 ug/l
Zinc	780 ug/l

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

10. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001009. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 009 – 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			
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
01220 - Chromium, Dissolved Hexavalent - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Estimate	All

Notes for Station Number 11D00001009:

a. The discharge from this outfall is limited to storm water runoff collected at Cleveland-Cliffs Steel's landfill settling ponds. The discharge contains storm water that has contacted waste from the landfill or non-contact storm water from the landfill areas or any combination of both. This discharge is not an authorization to discharge pollutants in excess of Ohio water quality standards. If the discharge concentrations from this outfall increases significantly, water quality based effluent limits may be developed and incorporated into this permit by modification to this permit or during permit renewal.

b. See also Parts IV, V, and VI.

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

11. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001011. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 011 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	2/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00981 - Selenium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
34044 - Oxidants, Total Residual - mg/l	0.0048	-	-	-	0.19	-	-	1 / 2 Weeks	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Total	All
50092 - Mercury, Total (Low Level) - ng/l	-	-	-	-	-	-	-	1/Month	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Year	24hr Composite	August
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Year	24hr Composite	August

Notes for Station Number 11D00001011:

- a. The discharge from this outfall is limited to the discharge from stations 11D00001613 and 11D00001614, excess river/well water, non-contact cooling water and storm water runoff.
- b. Biomonitoring - See Part II, Item M.
- c. Selenium - See Part II, Item F.

d. Total Residual Oxidants - See Part II, Item O.

e. The Total Residual Oxidants (TRO) limits are the maximum allowed at any time at the outfall. Report the maximum concentration of TRO detected during bromination for each day.

f. TRO reflects the use of bromine compounds. Bromine can be used separately or in combination with chlorine. These limits are effective when bromine is used.

g. For TRO, report on days when bromine or bromine and chlorine containing compounds are used. Report "AH" for TRO on the DMR if only chlorine is used and explain in the remarks section.

h. Analyses for TRO are to be performed by low level amperometric titration, Standard Method 4500-CL E.

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

12. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001015. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 015 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Week	Grab	All
00951 - Fluoride, Total (F) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
34044 - Oxidants, Total Residual - mg/l	0.0024	-	-	-	0.016	-	-	1/Quarter	Grab	Quarterly
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All

Notes for Station Number 11D00001015:

- a. The discharge from this outfall is limited to treated process waters from station 11D00001005, continuous casting, vacuum degassing, hot forming operations, well/river water, non-contact cooling water and storm water runoff.
- b. For Total Filterable Residue sampling requirements, see Part II, Item H. If the monthly average concentration of total filterable residue exceeds 1,387 mg/L in any month, the permittee shall notify Ohio EPA Southwest District Office by including a statement in the “general comments” section of the eDMR.
- c. Lead - See Part II, Item F.

d. Total Residual Oxidants - See Part II, Item O.

e. The Total Residual Oxidants (TRO) limits are the maximum allowed at any time at the outfall. Report the maximum concentration of TRO detected during bromination for each day.

f. TRO reflects the use of bromine compounds. Bromine can be used separately or in combination with chlorine. These limits are effective when bromine is used.

g. For TRO, report on days when bromine or bromine and chlorine containing compounds are used. Report "AH" for TRO on the DMR if only chlorine is used and explain in the remarks section.

h. Analyses for TRO are to be performed by low level amperometric titration, Standard Method 4500-CL E.

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

13. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001613. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 613 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	410	-	205	1/Week	24hr Composite	All
00720 - Cyanide, Total - mg/l	-	-	-	-	11.4	-	5.70	1/Week	Grab	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
32730 - Phenolic 4AAP, Total - ug/l	-	-	-	-	1.8	-	0.90	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Total	All

Notes for station 11D00001613:

- a. The discharge from this outfall is limited to treated process waters from the #3 Blast Furnace in addition to boiler house and water softening operations.

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

14. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001614. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 614 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Notes for station 11D00001614:

- a. The discharge from this outfall is limited to treated process waters from the cold forming, acid pickling, alkaline cleaning, coating, boiler house operations and non-contact water from Air Products and the permittee. The treated process waters may include process wastewaters from the no. 2 electrogalvanizing line on an emergency basis, and other wastewaters from the slag processing area's above ground storage tank and from stations 11D00001005, 11D00001631, 11D00001641 and 11D00001642 on an intermittent basis.
- b. Monitoring Waiver - In addition to the parameters listed above, the BAT regulations for the Cold Forming and Acid Pickling Subcategories of the Iron and Steel Regulations include limitations for naphthalene and tetrachloroethylene. While these limits apply to the discharge from outfall 11D00001614, they are not present in Cleveland-Cliffs Steel's cold forming wastewaters in excess of background concentrations. Based on this information and available monitoring data, Ohio EPA has granted a monitoring waiver for naphthalene and tetrachloroethylene under 40 CFR 122.44 (a) (2). The applicable Iron and Steel limitations are:



Pollutant	30-Day	Daily
Naphthalene kg/day	--	0.294
Tetrachloroethylene kg/day	--	0.440

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

15. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001631. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 631 - Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	1245	-	522	1/Week	24hr Composite	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	7.48	-	1.74	1/Week	24hr Composite	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	8.00	-	3.50	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Total	All

Notes for station 11D00001631:

- a. The discharge from this outfall is limited to treated process waters from steelmaking operations at the Basic Oxygen Furnace (BOF).

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

16. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001641. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 641 - Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	1661	-	850	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	-	-	-	-	856	-	306	1/Week	Grab	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	3.90	-	1.87	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Total	All

Notes for station 11D00001641:

a. The discharge from this outfall is limited to treated process waters from acid pickling, alkaline cleaning, cold forming, and coating operations, treated surface runoff and non-contact cooling water.

b. Monitoring Waiver - In addition to the parameters listed above, the BAT regulations for the Acid Pickling and Cold Forming Subcategories of the Iron and Steel Regulations include limitations for lead, naphthalene and tetrachloroethylene. While these limits apply to the discharge from outfall 11D00001641, they are not present in Cleveland-Cliffs Steel's acid pickling and cold forming wastewaters in excess of background concentrations. Based on this information and available monitoring data, Ohio EPA has granted a monitoring waiver for lead, naphthalene and tetrachloroethylen under 40 CFR 122.44 (a) (2). The applicable Iron and Steel limitations are:

Pollutant	30-Day	Daily
Lead kg/day	1.84	5.03
Naphthalene kg/day	--	1.23
Tetrachloroethylene kg/day	--	1.85

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

17. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 11D00001642. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 642 – Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	60	-	-	31	-	-	-	1/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	52	-	-	26	-	-	-	1/Week	Grab	All
01092 - Zinc, Total (Zn) - ug/l	2610	-	-	1480	-	-	-	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	0.360	-	-	-	-	-	-	1/Day	24hr Total	All
82090 - Total Toxic Organics - ug/l	1704	-	-	-	-	-	-	1/Year	Calculated	Yearly

Notes for station 11D00001642:

a. Cleveland-Cliffs steel shall not dilute process wastewater as substitute for treatment to achieve compliance with applicable federal metal finishing point source category (40 CFR 433) effluent guideline limitations. The limitations were reviewed and approved based on information from the permittee that 100 percent of the discharge through this outfall is considered process wastewater in accordance with the previously mentioned federal effluent guidelines. If that figure is incorrect or changes, Cleveland-Cliffs Steel shall notify the Ohio EPA immediately.

b. Monitoring Waiver - In addition to the parameters listed above, the NSPS regulations for the Metal Finishing Subcategory of the Metal Finishing Regulations include limitations for cadmium, chromium, copper, lead, nickel, silver and cyanide. While these limitations apply to the discharge from outfall 11D00001642, they are not present in Cleveland-Cliffs Steel's metal finishing wastewaters in excess of background concentrations. Based on this information and available monitoring data, Ohio EPA has granted a monitoring waiver for cadmium, chromium, copper, lead, silver and cyanide under 40 CFR 122.44 (a) (2). The applicable Metal Finishing limitations are:

Pollutant	30- Day	Daily	Pollutant	30- Day	Daily
Cadmium ug/l	70	110	Lead ug/l	430	690
Chromium ug/l	1710	2770	Silver ug/l	240	430
Copper ug/l	2070	3380	Cyanide ug/l	650	1200
Nickel ug/l	1904	3184			

c. The effluent limit of 1704 ug/l daily maximum for Total Toxic Organics, and all of the metals limits for which monitoring waivers were granted, are treatment technology based limitations and are not an authorization to discharge these pollutants at levels which cause or may cause water quality violations. The discharge of these pollutants at levels which cause or may cause water quality violations is prohibited. See Part II, Item M, Total Toxic Organic Certification Statement.

Part I, B. - INTAKE MONITORING REQUIREMENTS

1. Intake Monitoring. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee shall monitor the Intake at Station Number 11D00001800, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Intake Monitoring - 800 – 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			
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total Estimate	All

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

2. Upstream Monitoring. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 11D00001801, 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			
61432 - 48-Hr. Acute Toxicity Ceriodaphnia dubia - % Affected	-	-	-	-	-	-	-	1/Year	Grab	August
61435 - 96-Hr. Acute Toxicity Pimephales promela - % Affected	-	-	-	-	-	-	-	1/Year	Grab	August

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

3. Upstream Monitoring. During the period beginning on the effective date of the permit modification and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 11D00001803, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Upstream Monitoring - 803 - Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total Estimate	All
70300 - Residue, Total Filterable - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All

Notes for Station Number 11D00001803:

a. Samples at this station shall be taken prior to samples at outfall 11D00001003. Timing of sampling at 11D00001803 and 11D00001003 must account for travel time and pond retention time. The permittee shall make every reasonable effort to ensure that the 11D00001003 samples represent, in part, the flow and conditions measured at 11D00001803 during the same sampling event.



Part I, B. - UPSTREAM MONITORING REQUIREMENTS

4. Upstream Monitoring. During the period beginning on the effective date of this permit modification and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 11D00001804, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Upstream Monitoring - 804 - 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			
04270 - Chronic Toxicity, Daphnia Magna, 21 Day - % Affected	-	-	-	-	-	-	-	1/Quarter	Grab	Quarterly
61424 - Acute Toxicity, Daphnia magna, 48 Hours - % Affected	-	-	-	-	-	-	-	1/Quarter	Grab	Quarterly

Notes for Station Number 11D00001804:

a. Samples at this station shall be taken prior to samples at outfall 11D00001004. Timing of sampling at 11D00001804 and 11D00001004 must account for travel time and pond retention time. The permittee shall make every reasonable effort to ensure that the 11D00001004 samples represent, in part, the flow and conditions measured at 11D00001804 during the same sampling event.

## SCHEDULE OF COMPLIANCE

### 1. Schedule to Achieve Compliance with Final Effluent Limits at Outfall 11D00001002

The permittee shall achieve compliance with the final effluent limitations for outfall 11D00001002 as specified in Part I.A. of this NPDES permit as expeditiously as practicable. In any event, the permittee shall attain final compliance not later than the dates developed in accordance with the following schedule:

a. The permittee shall submit to the Ohio EPA Southwest District Office a status report on submitting a complete and approvable Permit to Install (PTI) application and detailed plans for achieving final compliance for outfall 11D00001002 as soon as possible, but not later than 12 months after the effective date of this permit. (Event Code 53799) [Completed]

b. The permittee shall submit to the appropriate Ohio EPA District Office a status report, including, if necessary, a complete and approvable PTI application and detailed plans for achieving final compliance for outfall 11D00001002 as soon as possible, but not later than 24 months after the effective date of this permit. (Event Code 53799) [Completed]

c. The permittee shall have attained full compliance with the final effluent limitations for outfall 11D00001002 as soon as possible, but not later than March 1, 2025. (Event Code 05699)

### 2. Schedule to Achieve Compliance with Total Filterable Residue Limits at Outfall 11D00001004

The permittee shall achieve compliance with the final effluent limitations for outfall 11D00001004 specified in Part I.A. of this NPDES permit as expeditiously as practicable. In any event, the permittee shall attain final compliance not later than the dates in the following schedule:

a. [All items under item 2.a. have been completed] Not later than 12 months from the effective date of this permit, the permittee shall submit a report to the Ohio EPA Southwest District Office, including an evaluation that includes the identification of available treatment technologies or discharge alternatives that achieve compliance with the applicable water quality criterion for total filterable residue at Outfall 11D00001004. The plan shall, at a minimum, include consideration of the following alternatives:

- i. Redirection of effluent to the City of Middletown's municipal sewer system
- ii. Relocation of the Outfall 11D00001004 discharge to the Great Miami River
- iii. Comingling the effluent with the discharge to Outfall 11D00001011
- iv. Flow augmentation
- v. Pollutant source reduction

This report shall also include the status of the biological assessments of Dicks Creek. (Event Code 95999) [Completed]

b. Not later than March 1, 2025, the permittee shall submit a status report to the Ohio EPA Southwest District Office on its actions to achieve compliance with the final effluent limits for total filterable residue at Outfall 11D00001004. The report shall also address other affected outfalls if necessary. At a minimum, the report shall include information regarding the progress of evaluating identified alternatives that will achieve compliance with any final effluent limits. (Event Code 95999)

c. Not later than September 1, 2025, the permittee shall submit an approvable PTI application, if necessary, to achieve compliance with the final total filterable residue limits contained in the permit at that time for Outfall 11D00001004 and shall address any other affected outfalls if necessary. (Event Code

01299)

d. The permittee shall attain full compliance with the final effluent limitations for Outfall 11D00001004 as soon as possible, but not later than September 1, 2026. (Event Code 05599)

The permittee shall submit written notification to the Ohio EPA Southwest District Office of the completion of this milestone within 14 days after completion.

e. If the permittee chooses to conduct further biological studies of Dicks Creek to show that applicable water quality standards are being met downstream of Outfall 11D00001004, the permittee shall submit a study plan to Ohio EPA at least 90 days before the study begins.

### 3. Schedule to Begin Monitoring at Intake Monitoring Station 800

The permittee shall install a flow meter and begin monitoring total daily flow at intake monitoring station 800 as soon as possible, but not later than 6 months after the effective date of this permit. (Event Code 5099) [Completed]

Part II, OTHER REQUIREMENTS

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

Sampling Station	Description of Location
1ID00001001	A calculated station representing the sum of station 1ID00001613 and 1ID00001614.
1ID00001002	Coke plant cooling water, river and well water, ground water and storm water effluent from SPCC pond prior to mixing with Dicks Creek. (Lat. 39 28' 20" ; Long. 84 23' 10")
1ID00001003	Effluent from BOF treatment plant 1ID00001631, well water, storm water drainage and cooling tower blowdown and off site flow, station 1ID00001803, originating from the City of Middletown's storm sewers, prior to discharging to Dicks Creek. (Lat. 39 28' 30" ; Long. 84 22' 20")
1ID00001004	Effluent from treatment plants 1ID00001641 and 1ID00001642, storm water runoff, well water, ground water and non-contact cooling water in a ditch impoundment prior to entering North Branch of Dicks Creek. (Lat 39 28' 30" ; Long. 84 21' 00")
1ID00001005	Internal discharge of wastewater from the hot forming mills, continuous caster, vacuum degasser at the Hot Strip Mill Water Clarification Plant and slab reheat furnaces prior to combining with cooling and storm waters in SPCC pond which discharges to Dicks Creek.
1ID00001006	Storm water discharge from the slag processing area. (Lat. 39N 28' 19.4", Long. 84W 22' 28.4")
1ID00001008	Storm water discharge from south area of plant (between outfalls 003 and 015) to Dicks Creek. (Lat. 39 N 28' 33" ; Long. 84 W 21' 17")
1ID00001009	Storm water runoff from Cleveland-Cliffs Steel's landfill settling ponds prior to discharging to Dicks Creek. (Lat. 39 28' 20" ; Long. 84 23' 10")
1ID00001011	At a manhole representative of combined flows (including 1ID00001613 and 1ID00001614 effluents) leaving Cleveland-Cliffs Steel's property. (Lat. 39 30' 10" ; Long. 84 25' 10")
1ID00001015	Discharge from SPCC pond containing 1ID00001005 effluent, well water and non-contact cooling and storm waters, which enters Dicks Creek. (Lat. 39 28' 30" ; Long. 84 21' 00")
1ID00001613	Effluent from the blast furnace wastewater treatment plant including boiler house and water softening discharges prior to mixing with other wastewaters that make up the outfall 1ID00001011 discharge to the Great Miami River.
1ID00001614	Combined process effluent from wastewater treatment plant (North Terminal) prior to mixing with other wastewaters that make up the outfall 1ID00001011 discharge to the Great Miami River.

11D00001631	Effluent from the Basic Oxygen Furnace (BOF) wastewater treatment plant prior to discharge to outfall 11D00001003.
.	
11D00001641	Effluent from the cold mill/pickling wastewater treatment plant (South Terminal) prior to discharge from outfall 11D00001004.
.	
.	Includes discharges from acid pickling, cold forming, coating, alkaline cleaning, storm and non-contact cooling water.
.	
11D00001642	Effluent from the no. 2 electrogalvanizing wastewater treatment plant prior to discharge through outfall 11D00001004.
.	
11D00001801	Upstream in the Great Miami River from outfall 11D00001011.
11D00001803	In ditch on north side of property representative of all off-site flows, upstream of 11D00001003 sources.
.	
11D00001804	Upstream from outfall 11D00001004 in North Branch Dicks Creek.
.	

B. 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>

C. There shall be no detectable amount of any priority pollutant attributable to cooling tower maintenance chemicals in the cooling tower blowdown wastewater.

D. Composite samples shall be comprised of a series of grab samples collected over a 24-hour period and proportionate in volume to the wastewater 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.

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

F. Tracking of Group 4 Parameters

A preliminary effluent limit (PEL) has been provided below for parameters with a projected effluent quality (PEQ) equivalent to or exceeding seventy-five percent of the PEL. In accordance with rule 3745-33-07(A)(2) of the Ohio Administrative Code, the permittee must report in writing, any effluent concentration sample result greater than the PEL values listed below to the Ohio EPA Southwest District Office. Written notification must be submitted within 30 days of an effluent concentration sample result that exceeds the PEL and must detail the reasons why the PEL has been exceeded and the expectation of continued levels above the PEL.

<u>Outfall</u>	<u>Parameter</u>	<u>PEL</u>
11D00001002	Zinc	--
		403 µg/l (maximum)
11D00001003		

	Lead	59 µg/l (30-day avg)	--
	Selenium	8.0 µg/l (30-day avg)	--
1ID00001011			
	Selenium	8.9 µg/l (30-day avg)	--
1ID00001015			
	Lead	59 µg/l (30-day avg)	--

The permittee must reduce 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 a consecutive six month period; or
2. The thirty-day average for any pollutant is greater than the average PEL for two or more months during a consecutive six month period; and

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.

G. Water quality based permit limitations 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 water quality based effluent limits or other conditions that are necessary to comply with a revised wasteload allocation, or an approved total maximum daily loads (TMDL) report as required under Section 303 (d) of the Clean Water Act.

#### H. RESERVED

I. 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.

#### J. RESERVED

K. The permittee shall maintain a permanent marker on the stream bank at each outfall that is regulated under this NPDES permit and discharges to the Great Miami River, Dicks Creek or North Branch Dicks Creek. This includes final outfalls, bypasses, and combined sewer overflows. The marker shall consist at a minimum of 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 marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall be 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. If the outfall is a combined sewer outfall, the sign shall indicate that untreated human sewage may be discharged from the outfall during wet weather and that harmful bacteria may be present in the water.

#### L. Total Toxic Organic (TTO) and Wastewater Characterization Provisions

##### 1. Certification Option

If the permittee elects to certify compliance rather than continue monitoring, the permittee shall:

a. Submit to the Ohio EPA a toxic organic management plan within 90 days after completion of the wastewater characterization monitoring program described in 2. above. The plan shall specify to the satisfaction of the Ohio EPA the toxic organic chemicals used, the method of disposal used instead of dumping, such as reclamation, contract hauling, or incineration, and procedures for ensuring that toxic organics do not spill or leak into process wastewaters, non-contact cooling water, ground water, storm water, or surface waters. Upon review and approval of the plan, the Ohio EPA will modify this permit to include the plan as a provision of the permit.

b. Except as provided in subparagraph c. below, make the following certification statement each month: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO, I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report.

This statement is to be attached to the discharge monitoring reports required by 40 CFR 122.44(i), formerly 40 CFR 122.61(i). Upon approval of the toxic organic management plan described in subparagraph 1 above, the permittee shall include the following statement as part of the certification statement:

I further certify that this facility is implementing the toxic organic management plan submitted to the Ohio EPA.

c. If the permittee is unable to make the above certification statement, notify the Ohio EPA in accordance with Part III, 12 of this permit.

#### M. Biomonitoring Program Requirements for Outfalls 11D00001004 and 11D000001011

As soon as possible but not later than three months after the effective date of this permit, the entity shall initiate an effluent biomonitoring program to determine the toxicity of the effluent from outfalls 11D00001004 and 11D000001011.

#### 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, 1991 (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 quarterly chronic toxicity tests using *Daphnia magna* (water fleas) on effluent samples from outfall 11D00001004. These tests shall be conducted as specified in Section 3 of the biomonitoring guidance. Acute endpoints, as described in Section 2.H. of the biomonitoring guidance, shall be derived from the chronic tests.

## 2. Acute Bioassays

The permittee shall conduct semi-annual definitive acute toxicity tests using and fathead minnows (*Pimephales promelas*) and water fleas (*Ceriodaphnia dubia*) on effluent samples from outfall 11D00001011. These tests shall be conducted as specified in Section 2 of the biomonitoring guidance.

## 3. Data Review

### a. Reporting

Following completion of each quarterly 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. 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<sub>a</sub> = Acute Toxic Units = 100/LC<sub>50</sub>

TU<sub>c</sub> = Chronic Toxic Units = 100/IC<sub>25</sub>, or for Daphnid tests, or

TU<sub>c</sub> = Chronic Toxic Units = 100/square root of NOEC x LOEC

When this latter calculation results in a higher TU<sub>c</sub> value.

## N. Endangered Species Act

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

## O. Limits Below Quantification

The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136. OEPA QLs may be expressed as Practical Quantification Levels (PQL) or Minimum Levels (ML). Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit. For average effluent limits, compliance shall be determined by taking the arithmetic mean of values reported for a specified averaging period, using zero (0) for any value reported at a concentration less than the OEPA QL, and comparing that mean to the appropriate average effluent limit. An arithmetic mean that is less than or equal to the average effluent limit shall be considered in compliance with that limit.

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

### REPORTING:

All analytical results, even those below the OEPA QL (listed below), shall be reported.

Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.



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

The following table of quantification levels will be used to determine compliance with NPDES permit limits. Reported results that are below the PQL below will be considered in compliance with the effluent limits in Part I.A of this permit.

Parameter	PQL	ML
Oxidants, Total Residual	0.050 mg/l	--

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

#### P. Cooling Water Intake Structure Minimization of Entrainment and Impingement

The permittee withdraws water from the Great Miami River. The actual flow of the intakes is approximately 27.7 MGD.

The permittee shall reduce impingement mortality and entrainment commensurate with the implementation of the technologies or operational measures selected. Based on best professional judgement of the selected technologies and operational measures below, the intake meets the best technology available.

Impingement mortality option - 40 CFR 125.94(c)(1) - closed-cycle recirculating system.

Entrainment mortality best technology available - the use of cooling towers reduced intake flow by approximately 94 percent compared to once-through cooling.

#### 1. Cooling Water Intake Structure Monitoring Requirements

The permittee is required to perform the following monitoring to demonstrate compliance with 316(b) requirements:

##### i. Visual or Remote Inspections

The permittee shall either conduct weekly visual inspections or employ remote monitoring devices during the period the cooling water intake structure is in operation.

#### 2. Cooling Water Intake Structure Record Keeping and Reporting Requirements

##### i. Record Keeping Requirements

The permittee shall keep records of all the data used to complete the permit application and show compliance with the requirements of the 316(b) regulations until the subsequent permit is reissued.

##### ii. Reporting Requirements

The permittee shall submit an annual certification statement signed by the responsible corporate officer indicating whether there have been any substantial modifications of any units that impact the cooling water withdrawals and a summary of those changes.

Q. Section 316(b) Application Requirements

a. Under rules which were promulgated under Section 316(b) of the federal Clean Water Act (33 U.S.C. section 1326), the permittee is required to collect and/or compile the following information pertaining to the facility's cooling water intake structure(s):

- source water physical data [40 CFR 122.21(r)(2)];
- cooling water intake structure data [40 CFR 122.21(r)(3)];
- source water baseline biological characterization data [40 CFR 122.21(r)(4)];
- cooling water system data [40 CFR 122.21(r)(5)];
- intended method of compliance with impingement mortality standard [40 CFR 122.21(r)(6)];
- existing entrainment performance studies [40 CFR 122.21(r)(7)]; and
- operational status [40 CFR 122.21(r)(8)]

b. The facility was granted an alternative schedule to submit the information for sections (r)(2) through (r)(8). All of the information listed above shall be submitted with the subsequent permit renewal application.

c. Until the appropriate information has been submitted, Ohio EPA has made an interim best technology available (BTA) determination based on best professional judgment (BPJ) to minimize adverse environmental impacts.

## PART III - GENERAL CONDITIONS

### 1. DEFINITIONS

"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.

"Average weekly" discharge limitation means the highest allowable average of "daily discharges" over a calendar week, 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 "average 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.

"Average monthly" discharge limitation means the highest allowable 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.

"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.

"Absolute Limitations" Compliance with limitations having descriptions of "shall not be less than," "not greater than," "shall not exceed," "minimum," or "maximum" shall be determined from any single value for effluent samples and/or measurements collected.

"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 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 intervals throughout the plant day.

"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.

"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.

"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.

"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.

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

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

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

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

"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.

"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.

"Sewage sludge" means a solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works as defined in section 6111.01 of the Revised Code. "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 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 sludge weight generated in a calendar year (use the most recent calendar year data when the NPDES permit is up for renewal).

"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 section 3745.11(Y) of the Ohio Revised Code, are based on the reported sludge fee weight for the most recent calendar year.

## 2. GENERAL EFFLUENT LIMITATION

The effluent shall, at all times, be free of substances:

- A. In amounts that will settle to form putrescent, or otherwise objectionable, sludge deposits; or that will adversely affect aquatic life or waterfowl;
- B. 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;
- C. In amounts that will alter the natural color or odor of the receiving water to such degree as to create a nuisance;
- D. In amounts that either singly or in combination with other substances are toxic to human, animal, or aquatic life;
- E. In amounts that are conducive to the growth of aquatic weeds or algae to the extent that such growth become inimical to more desirable forms of aquatic life, or create conditions that are unsightly, or constitute a nuisance in any other fashion;
- F. In amounts that will impair designated instream or downstream water uses.

## 3. FACILITY OPERATION AND QUALITY CONTROL

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

- A. 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.
- B. The permittee shall effectively monitor the operation and efficiency of treatment and control facilities and the quantity and quality of the treated discharge.
- C. 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 the Paragraph in the PART III entitled, "UNAUTHORIZED DISCHARGES".

## 4. REPORTING

- A. Monitoring data required by this permit shall be submitted monthly 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. e-DMR information is found on the following web page:

<https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/electronic-business-services>

- B. 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:

1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (a) 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 (b) 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.

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

3. 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 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:  
<https://epa.ohio.gov/help-center/ebusiness-center>

C. DMRs submitted using e-DMR shall be submitted to Ohio EPA by the 20th day of the month following the month-of-interest.

D. 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.

E. 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 Section 7. RECORDS RETENTION.

## 5. SAMPLING AND ANALYTICAL METHOD

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 ensure accuracy of measurements.

## 6. RECORDING OF RESULTS

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

A. The exact place and date of sampling; (time of sampling not required on EPA 4500)

- B. The person(s) who performed the sampling or measurements;
- C. The date the analyses were performed on those samples;
- D. The person(s) who performed the analyses;
- E. The analytical techniques or methods used; and
- F. The results of all analyses and measurements.

## 7. 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 sewage sludge disposal, use, storage, or treatment, which shall be kept for a minimum of five years, including:

- A. All sampling and analytical records (including internal sampling data not reported);
- B. All original recordings for any continuous monitoring instrumentation;
- C. All instrumentation, calibration and maintenance records;
- D. All plant operation and maintenance records;
- E. All reports required by this permit; and
- F. 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, 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, or five-year period for sewage sludge, for retention of records shall start from the date of sample, measurement, report, or application.

## 8. 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 Section 6111.05 Ohio Revised Code state that effluent data and receiving water quality data shall not be considered confidential.

## 9. 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.

## 10. RIGHT OF ENTRY

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

- A. 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.
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.
- C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- D. 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.

## 11. UNAUTHORIZED DISCHARGES

A. 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 paragraphs 11.B and 11.C.

### B. Notice

- 1. 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.
- 2. Unanticipated Bypass - The permittee shall submit notice of an unanticipated bypass as required in paragraph 12.B (24-hour notice).

### C. Prohibition of Bypass

- 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 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
  - c. The permittee submitted notices as required under paragraph 11.B.
- 2. 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 paragraph 11.C.1.

## 12. NONCOMPLIANCE NOTIFICATION

### A. Exceedance of a Daily Maximum Discharge Limit

- 1. 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](mailto:sedo24hournpdes@epa.ohio.gov)  
Southwest District Office: [swdo24hournpdes@epa.ohio.gov](mailto:swdo24hournpdes@epa.ohio.gov)  
Northwest District Office: [nwdo24hournpdes@epa.ohio.gov](mailto:nwdo24hournpdes@epa.ohio.gov)  
Northeast District Office: [nedo24hournpdes@epa.ohio.gov](mailto:nedo24hournpdes@epa.ohio.gov)  
Central District Office: [cdo24hournpdes@epa.ohio.gov](mailto:cdo24hournpdes@epa.ohio.gov)  
Central Office: [co24hournpdes@epa.ohio.gov](mailto:co24hournpdes@epa.ohio.gov)

The permittee shall attach a noncompliance report to the email. A noncompliance report form is available on the following website under the Monitoring and Reporting - Non-Compliance Notification section: <https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/individual-wastewater-discharge-permits>

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:

- a. The name of the permittee, and a contact name and telephone number;
- b. The limit(s) that has been exceeded;
- c. The extent of the exceedance(s);
- d. The cause of the exceedance(s);
- e. The period of the exceedance(s) including exact dates and times;
- f. If uncorrected, the anticipated time the exceedance(s) is expected to continue; and,
- g. Steps taken to reduce, eliminate or prevent occurrence of the exceedance(s).

#### B. Other Permit Violations

1. 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](mailto:sedo24hournpdes@epa.ohio.gov)  
Southwest District Office: [swdo24hournpdes@epa.ohio.gov](mailto:swdo24hournpdes@epa.ohio.gov)  
Northwest District Office: [nwdo24hournpdes@epa.ohio.gov](mailto:nwdo24hournpdes@epa.ohio.gov)  
Northeast District Office: [nedo24hournpdes@epa.ohio.gov](mailto:nedo24hournpdes@epa.ohio.gov)  
Central District Office: [cdo24hournpdes@epa.ohio.gov](mailto:cdo24hournpdes@epa.ohio.gov)  
Central Office: [co24hournpdes@epa.ohio.gov](mailto:co24hournpdes@epa.ohio.gov)

The permittee shall attach a noncompliance report to the e-mail. A noncompliance report form is available on the following web site under the Monitoring and Reporting - Non-Compliance Notification section: <https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/individual-wastewater-discharge-permits>

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:

- a. The name of the permittee, and a contact name and telephone number;
  - b. The time(s) at which the discharge occurred, and was discovered;
  - c. The approximate amount and the characteristics of the discharge;
  - d. The stream(s) affected by the discharge;
  - e. The circumstances which created the discharge;
  - f. The name and telephone number of the person(s) who have knowledge of these circumstances;
  - g. What remedial steps are being taken; and,
  - h. The name and telephone number of the person(s) responsible for such remedial steps.
2. 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 B.1 above.
- C. When the telephone option is used for the noncompliance reports required by A and B, 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.
- D. 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:
1. The compliance event which has been or will be violated;
  2. The cause of the violation;
  3. The remedial action being taken;
  4. The probable date by which compliance will occur; and
  5. The probability of complying with subsequent and final events as scheduled.

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

F. 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.

#### 13. RESERVED

#### 14. DUTY TO MITIGATE

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

#### 15. 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 Section 309 of the Act and Ohio Revised Code Sections 6111.09 and 6111.99.

#### 16. DISCHARGE CHANGES

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

A. 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. 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.

B. For publicly owned treatment works:

1. Any proposed plant modification, addition, and/or expansion that will change the capacity or efficiency of the plant;
2. The addition of any new significant industrial discharge; and
3. 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.

C. 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. A determination will also be made as to whether a National Environmental Policy Act (NEPA) review will be required. Sections 6111.44 and 6111.45, Ohio Revised Code, 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.

D. 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:

1. 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 Sections 122.42(a)(1)(i) through 122.42(a)(1)(iv).
2. 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 122.42(a)(2)(i) through 122.42(a)(2)(iv).

#### 17. 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.

#### 18. PERMIT MODIFICATION OR REVOCATION

A. 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:

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

B. Pursuant to rule 3745-33-04, Ohio Administrative Code, 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 by the appropriate Ohio EPA district office at least ninety days before the date on which it is desired that the modification become effective. The application shall be made only on forms approved by the Ohio EPA.

#### 19. TRANSFER OF OWNERSHIP OR CONTROL

This permit may be transferred or assigned, and a new owner or successor can be authorized to discharge from this facility, provided the following requirements are met:

A. 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 appropriate Ohio EPA district 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 appropriate Ohio EPA district office sixty (60) days prior to the proposed date of transfer;

B. 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 appropriate Ohio EPA district office within sixty days after receipt by the district office of the copy of the letter from the permittee to the succeeding owner;

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, he will modify the permit to reflect the new owner.

## 20. 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 Section 311 of the Clean Water Act.

## 21. SOLIDS DISPOSAL

Collected grit and screenings, and other solids other than sewage sludge, 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.

## 22. 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.

## 23. 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.

## 24. 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 Section 510 of the Clean Water Act.

## 25. 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.

## 26. UPSET

The provisions of 40 CFR Section 122.41(n), relating to "Upset," are specifically incorporated herein by reference in their entirety. For definition of "upset," see Part III, Paragraph 1, DEFINITIONS.

## 27. 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.

## 28. SIGNATORY REQUIREMENTS

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

All reports submitted to the Director shall be signed and certified in accordance with the requirements of 40 CFR Section 122.22.

## 29. OTHER INFORMATION

A. 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. 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.

C. 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.

D. 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 \$25,000 or imprisoned not more than one year, or both.

## 30. 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.

## 31. 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.

## 32. 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 it into the publicly owned treatment works.

## **Part IV. Storm Water 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.3. 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 storm water discharges from your facility include storm water run-on that commingles with storm water 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 storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;
2. Using control measures in combination is more effective than using control measures in isolation for minimizing pollutants in your storm water 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 storm water 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 storm water drainage system).

The discharge of vehicle and equipment washwater, including tank cleaning operations, is not authorized by 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 storm water 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 storm water 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 storm water pollution prevention team (Part IV.J.1); and
  - d. 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 12 of this permit.



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 Ohio Department of Natural Resources (ODNR) Division of Soil and Water Conservation's Rainwater and Land Development manual ([http://epa.ohio.gov/dsw/storm/technical\\_guidance.aspx](http://epa.ohio.gov/dsw/storm/technical_guidance.aspx)), U.S. EPA's internet-based resources relating to BMPs for erosion and sedimentation, including the sector-specific *Industrial Storm Water Fact Sheet Series*, ([www.epa.gov/npdes/stormwater/msgp](http://www.epa.gov/npdes/stormwater/msgp)), *National Menu of Storm Water BMPs* ([www.epa.gov/npdes/stormwater/menuofbmps](http://www.epa.gov/npdes/stormwater/menuofbmps)), and *National Management Measures to Control Nonpoint Source Pollution from Urban Areas* ([www.epa.gov/owow/nps/urbanmm/index.html](http://www.epa.gov/owow/nps/urbanmm/index.html)).
6. Management of Runoff. You shall divert, infiltrate, reuse, contain, or otherwise reduce storm water runoff, to minimize pollutants in your discharges. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with the Ohio Department of Natural Resources (ODNR) Division of Soil and Water Conservation's Rainwater and Land Development manual ([http://epa.ohio.gov/dsw/storm/technical\\_guidance.aspx](http://epa.ohio.gov/dsw/storm/technical_guidance.aspx)), U.S. EPA's internet-based resources relating to runoff management, including the sector-specific *Industrial Storm Water Fact Sheet Series*, ([www.epa.gov/npdes/stormwater/msgp](http://www.epa.gov/npdes/stormwater/msgp)), *National Menu of Storm Water BMPs* ([www.epa.gov/npdes/stormwater/menuofbmps](http://www.epa.gov/npdes/stormwater/menuofbmps)), and *National Management Measures to Control Nonpoint Source Pollution from Urban Areas* ([www.epa.gov/owow/nps/urbanmm/index.html](http://www.epa.gov/owow/nps/urbanmm/index.html)).
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 storm water, 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-Storm Water Discharges. You shall eliminate non-storm water discharges not authorized in Part I and Part II of this NPDES permit. The following are additional non-storm water 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.2), 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 ground water or spring water;
  - j. Foundation or footing drains where flows are not contaminated with process materials; and
  - 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-storm water 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 any of the following conditions occur, 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:

- a. Construction or a change in design, operation, or maintenance at your facility significantly changes the nature of pollutants discharged in storm water from your facility, or significantly increases the quantity of pollutants discharged; or
  - b. Sampling results exceeds an applicable benchmark.
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 (i.e., question 4 of the Corrective Actions section in the Annual Reporting Form, available at [http://www.epa.state.oh.us/portals/35/permits/IndustrialStormWater\\_Final\\_GP\\_AppI\\_dec11.pdf](http://www.epa.state.oh.us/portals/35/permits/IndustrialStormWater_Final_GP_AppI_dec11.pdf)):
- Identification of the condition triggering the need for corrective action review;
  - Description of the problem identified; and
  - 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 (i.e., questions 7-11 of the Corrective Actions section in the Annual Reporting Form):

- 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);
- Notice of whether SWPPP modifications are required as a result of this discovery or corrective action;
- Date corrective action initiated; and
- Date corrective action completed or expected to be completed.

You shall 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. Conduct routine facility inspections of all areas of the facility where industrial materials or activities are exposed to storm water, and of all storm water 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 storm water. 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 storm water pollution prevention team participating. At least once each calendar year, the routine facility inspection shall be conducted during a period when a storm water discharge is occurring.

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.

### b. Exceptions to Routine Facility Inspections:

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 storm water. 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 Appendix B, Subsection 11. If circumstances change and industrial materials or activities become exposed to storm water 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 storm water, then you shall include the same signed and certified statement as above and retain it with your records pursuant to Part IV.J.5. Inactive and unstaffed facilities covered under Sectors D (Asphalt Paving and Roofing Materials and Lubricant Manufacturing), E (Glass, Clay, Cement, Concrete, and Gypsum Products) and J (Non-Metallic Mineral Mining and Dressing), are not required to meet the “no industrial materials or activities exposed to storm water” standard to be eligible for this exception from routine inspections, consistent with the requirements established in relevant sector requirements.

*Ohio EPA’s Encouraging Environmental Excellence (E3) Program:* If your facility has been recognized under the Gold and Platinum levels by Ohio EPA’s Encouraging Environmental Excellence (E3) Program, you only need to conduct routine facility inspections for two quarters each year. If Part IV.K of this permit requires your facility to conduct routine facility inspections on a monthly basis, you only need to conduct routine facility inspections on a quarterly basis.

2. Quarterly Visual Assessment of Storm Water Discharges.

a. Quarterly Visual Assessment Procedures

Once each calendar quarter for the entire permit term you shall collect a storm water sample from Outfalls 11D00001006 and 11D00001008 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 storm water discharge. The visual assessment shall be made:

- Of a sample in a clean, clear glass, or plastic container, and examined in a well-lit area;
- 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
- 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.
- Areas Subject to Snow: In areas subject to snow, at least one quarterly visual assessment shall capture snowmelt discharge.
- For the following water quality characteristics: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water

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:

- Sample location(s);
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the storm water discharge;
- Probable sources of any observed storm water contamination; and
- 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:

- Adverse Weather Conditions: 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.
- Substantially identical outfalls: If your facility has two or more outfalls that you believe discharge substantially identical effluents, as documented in Part IV.J.2.a.iii, 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 storm water 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.
- 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 storm water. 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.28 of this permit. If circumstances change and industrial materials or activities become exposed to storm water 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 storm water, then you shall include the same signed and certified statement as above and retain it with your records.

- Ohio EPA's Encouraging Environmental Excellence (E3) Program: If your facility has been recognized under the Gold and Platinum levels by Ohio EPA's Encouraging Environmental Excellence (E3) Program, you only need to conduct quarterly visual assessment of storm water discharges for two quarters each year.

#### **F. Storm Water Pollution Prevention Plan (SWPPP)**

A storm water pollution prevention plan (SWPPP) shall be developed to address each outfall that discharges to waters of the state that contains storm water associated with industrial activity. Storm water 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 storm water 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 storm water 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 storm water 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 to Update the SWPPP**

1. The permittee shall continue to implement and be in compliance with the SWPPP required by the previous permit. Within six months of the effective date of this permit, the permittee shall update the SWPPP as necessary to address any new or reviewed requirements of this permit.

#### **H. Signature and Plan Review.**

1. The plan shall be signed and dated in accordance with Part III, Item 28, and be retained on-site at the facility which generates the storm water discharge.
2. The permittee shall make plans immediately available upon request to the Ohio EPA Director, or authorized representative, or Regional Administrator of U.S. EPA, a local agency approving storm water management plans, or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system, to the operator of the municipal system.
3. 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.
4. All storm water 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. Keeping SWPPP Current**

The permittee shall modify the plan 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.

Amendments to the plan may be reviewed by Ohio EPA in the same manner as Part IV.H above.

## **J. Contents of SWPPP.**

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

1. Pollution Prevention Team. You shall identify the staff members (by name or title) that comprise the facility's storm water pollution prevention team as well as their individual responsibilities. Your storm water 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 storm water pollution prevention team shall have ready access to either an electronic or paper copy of applicable portions of this permit and your SWPPP.
2. Description of Potential Pollutant Sources. You shall document at your facility where industrial materials or activities are exposed to storm water and from which allowable non-storm water 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. For each area identified, the description shall include, at a minimum:
  - a. Site Description. Your SWPPP shall include:
    - i. A description of the industrial activities at your facility;
    - ii. 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 storm water discharges.
    - iii. A site map showing
      - The size of the property in acres;
      - The location and extent of significant structures and impervious surfaces;
      - Directions of storm water 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 storm water 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 storm water monitoring points;
      - Locations of storm water 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 storm water discharges to them;
  - Locations and descriptions of all non-storm water 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;
    - 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.
- b. Inventory of Exposed Materials. This includes a list of industrial activities exposed to storm water (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams). This also includes 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 storm water in the three years prior to the data 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 storm water 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 storm water conveyance, in the three years prior to the date you prepare or amend your SWPPP. Note that 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. Sampling Data. A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility.
- e. Non-Storm Water Discharges. You shall document that you have evaluated for the presence of non-storm water 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: 1) The date of any evaluation; 2) A description of the evaluation criteria used; 3) A list of the outfalls or onsite drainage points that were directly observed during the evaluation; 4) The different types of non-storm water discharge(s) and source locations; and 5) 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.
- f. Salt Storage. You shall document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.
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3. 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 storm water run-on that commingles with any discharges covered under this permit.

4. 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.J.5; 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 storm water 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 storm water discharges (See Part IV.E.2). For each type of monitoring, your SWPPP shall document:

- Locations where samples are collected, including any determination that two or more outfalls are substantially identical;
- Parameters for sampling and the frequency of sampling for each parameter;
- Schedules for monitoring at your facility (see Part 6.1.6);
- Any numeric control values (benchmarks, effluent limitations guidelines, or other requirements) applicable to discharges from each outfall; and
- Procedures (e.g., responsible staff, logistics, laboratory to be used, etc.) for gathering storm event data.

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 or your benchmark monitoring requirements in Part V:

- Location of each of the substantially identical outfalls;

- Description of the general industrial activities conducted in the drainage area of each outfall;
  - Description of the control measures implemented in the drainage area of each outfall;
  - Description of the exposed materials located in the drainage area of each outfall that are likely to be significant contributors of pollutants to storm water discharges;
  - An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%); and
  - Why the outfalls are expected to discharge substantially identical effluents.
5. 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. 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 storm water 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 must clearly identify those portions of the SWPPP that are being withheld from public access. See 40 CFR Part 2 for relevant definitions of CBI:  
<http://www.gpo.gov/fdsys/pkg/CFR-2013-title40-vol1/pdf/CFR-2013-title40-vol1-part2-subpartB.pdf>.

## K. Sector-Specific Requirements

### Sector F – Primary Metals.

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. Additional Control Measures/Best Management Practices (BMPs).
  - a. *Good Housekeeping Measures.* (See also Part IV.C.2) As part of your good housekeeping program, include a cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust, or debris may accumulate, especially areas where material loading and unloading, storage, handling, and processing occur; and, where practicable, the paving of areas where vehicle traffic or material storage occur but where vegetative or other stabilization methods are not practicable (institute a sweeping program in these areas too). For unstabilized areas where sweeping is not practicable, consider using storm water management devices such as sediment traps, vegetative buffer strips, filter fabric fence, sediment filtering boom, gravel outlet protection, or other equivalent measures that effectively trap or remove sediment.
2. Additional SWPPP Requirements.
  - a. *Drainage Area Site Map.* (See also Part IV.J.2.a) Identify in the SWPPP where any of the following activities may be exposed to precipitation or surface runoff: storage or disposal of

wastes such as spent solvents and baths, sand, slag and dross; liquid storage tanks and drums; processing areas including pollution control equipment (e.g., baghouses); and storage areas of raw material such as coal, coke, scrap, sand, fluxes, refractories, or metal in any form. In addition, indicate where an accumulation of significant amounts of particulate matter could occur from such sources as furnace or oven emissions, losses from coal and coke handling operations, etc., and could result in a discharge of pollutants to surface waters of the State.

b. *Inventory of Exposed Material.* (See also Part IV.J.2.b) Include in the inventory of materials handled at the site that potentially may be exposed to precipitation or runoff, areas where deposition of particulate matter from process air emissions or losses during material-handling activities are possible

3. Additional Inspection Requirements. (See also Part IV.E.) As part of conducting your quarterly routine facility inspections (Part IV.E.), address all potential sources of pollutants, including (if applicable) air pollution control equipment (e.g., baghouses, electrostatic precipitators, scrubbers, and cyclones), for any signs of degradation (e.g., leaks, corrosion, or improper operation) that could limit their efficiency and lead to excessive emissions. Consider monitoring air flow at inlets and outlets (or use equivalent measures) to check for leaks (e.g., particulate deposition) or blockage in ducts. Also inspect all process and material handling equipment (e.g., conveyors, cranes, and vehicles) for leaks, drips, or the potential loss of material; and material storage areas (e.g., piles, bins, or hoppers for storing coke, coal, scrap, or slag, as well as chemicals stored in tanks and drums) for signs of material losses due to wind or storm water runoff.

## Part V. Monitoring and Reporting Requirements

### A. Reporting and Recordkeeping

1. Reporting Benchmark Monitoring Data to Ohio EPA. Benchmark monitoring data shall be submitted to Ohio EPA in accordance with Part III Item 4. of this permit.
2. Annual Report. You shall complete an annual report using the Annual Reporting Form provided by Ohio EPA at the following location:

<http://www.epa.ohio.gov/portals/35/permits/OHR000006/ARForm.docx>

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. Storm Water Monitoring Requirements

1. Monitored Outfalls. Applicable benchmark monitoring requirements apply storm water outfalls 11D00001006 and 11D00001008, except as otherwise exempt from monitoring as a “substantially identical outfall”. The allowance for monitoring only one of the substantially identical outfalls is not applicable to any outfalls with numeric effluent limitations. You are required to monitor each outfall covered by a numeric effluent limit as identified in Part I. For monitoring purposes, an outfall can include a discrete conveyance (i.e., pipe, ditch, channel tunnel or conduit) or a location where sheet flow leaves your facility’s property.
2. Measurable Storm Event. All required monitoring shall be performed on a storm event that results in an actual discharge from your site (“measurable storm event”) that follows the preceding measurable storm event by at least 72 hours (3 days). The 72-hour (3-day ) storm interval does not apply if you are able to document that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring shall be performed at a time when a measurable discharge occurs at your site. For each monitoring event, except snowmelt monitoring, you shall identify the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event. For snowmelt monitoring, you shall identify the date of the sampling event.
3. Sample Type. You shall take a minimum of one grab sample from a discharge resulting from a measurable storm event as described in Part V.B.2. Samples shall be collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample shall be collected as soon as practicable after the first 30 minutes and documentation shall be kept with the SWPPP explaining 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.
4. Benchmark Monitoring. This permit stipulates pollutant benchmark concentrations that are applicable to certain sectors and subsectors and must be monitored once per year. **The benchmark concentrations are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation.** Benchmark monitoring data are for your use to determine the overall effectiveness of your control measures and to assist you in knowing when additional corrective

action(s) may be necessary to comply with the control measures/best management practices (BMPs) in Part IV. Items A-C.

- a. Based on the average of your annual monitoring results of the three-year benchmark evaluation period, if the monitoring values for any parameter exceeds the benchmark, you shall perform the following within one year of exceeding the benchmark:
  - i. In accordance with Part IV.D.2, review the selection, design, installation, and implementation of your control measures to determine if modifications are necessary to meet the Part IV. Items A-C control measures/best management practices (BMPs) of this permit; or
  - ii. Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the control measures/best management practices (BMPs) in Part IV. Items A-C of this permit. You shall also document your rationale for concluding that no further pollutant reductions are achievable, and retain all records related to this documentation with your SWPPP. You shall also notify Ohio EPA and, if applicable, the MS4 operator of this determination within 30 days.

Ideally your storm water samples will contain only runoff from your site. However, storm water from a neighboring facility can run-on and comingle with your regulated storm water discharge, possibly adding contaminants not found at your facility. The SWPPP site description shall document the locations and sources of any run-on. If you feel your discharge is exceeding a benchmark value due to, run-on from neighboring properties, you may collect and analyze samples of the run-on. Determined contaminant concentrations of run-on from neighboring properties may be deducted from your storm water discharge when determining whether a benchmark has been exceeded. This information shall be documented within eDMR's comment section. All sample data and findings shall be maintained with your SWPPP.

If it is determined that a water quality standard is less restrictive than this permit's benchmark value, you may use the less restrictive value for benchmark monitoring purposes. Pollutant concentrations from your facility's structures (roofs, walls, fencing, etc.) can be considered to determine if it is technologically available and economically practical and achievable in light of best industry practice to implement additional control measures or not when a benchmark has been exceeded.

In accordance with Part IV.D.2, you shall review your control measures and perform any required corrective action immediately or document why no corrective action is required.

- b. If you determine that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, you are not required to perform corrective action provided that:
  - i. The concentration of your benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;
  - ii. You document and maintain with your SWPPP your supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background levels. You shall include in your supporting rationale any data previously collected by you or others (including literature studies) that describe the levels of natural background pollutants in your storm water discharge.

Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources which are not naturally occurring.

- c. *Exception for Inactive and Unstaffed Sites.* The requirement for benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to storm water. To invoke this exception, you shall do the following:
- i. Maintain a statement onsite with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Part IV.E.1.b.
  - ii. If circumstances change and your facility becomes active and/or staffed, this exception no longer applies and you shall immediately begin complying with the applicable benchmark monitoring requirements under Part V. B; and
  - iii. 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 storm water, then you shall notify the appropriate district office of Ohio EPA of this change in your next benchmark monitoring report. You may discontinue benchmark monitoring once you have notified Ohio EPA, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception.

## **Part VI. Definitions and Acronyms**

**Action Area** – all areas to be affected directly or indirectly by the storm water discharges, allowable non-storm water discharges, and storm water 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 storm water 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 storm water regulations or identified by the SIC code list in 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 storm water and allowable non-storm water 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 storm water, except discharges authorized under an NPDES permit (other than the NPDES permit for discharges from the MS4) and discharges resulting from fire fighting 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 “storm water discharges associated with industrial activity” as defined in 40 CFR 122.26(b)(14)(i)-(ix) and (xi).

**Industrial Storm Water** – storm water 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, storm water, 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 storm water;
- (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:

- after promulgation of standards of performance under section 306 of the CWA which are applicable to such source, or
- 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 storm water 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; or
- (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 storm water 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 storm water 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 storm water 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).

**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 storm water 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.

**Storm Water** – storm water runoff, snow melt runoff, and surface runoff and drainage. See 40 CFR 122.26(b)(13).

**Storm Water Discharges Associated with Construction Activity** – a discharge of pollutants in storm water 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 storm water 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).

**Storm Water Discharges Associated with Industrial Activity** – the discharge from any conveyance that is used for collecting and conveying storm water 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, storm water 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 storm water. 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 storm water 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 – Storm Water 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

F A C T S H E E T

Regarding a Modification to an NPDES Permit To Discharge to Waters of the State of Ohio  
for the Cleveland-Cliffs Steel Corporation – Middletown Works

Public Notice No.: 207821  
Public Notice Date: November 21, 2024  
Comment Period Ends: December 21, 2024

OEPA Permit No.: 1ID00001\*ND  
Application No.: OH0009997

Name and Address of Applicant:  
Cleveland-Cliffs Steel Corporation  
Works  
1801 Crawford Street  
Middletown, OH 45043

Name and Address of Facility Where  
Discharge Occurs:  
Cleveland-Cliffs Steel Corp. – Middletown  
Works  
1801 Crawford Street  
Middletown, OH 45043  
Butler County

Receiving Water: Great Miami River, Dicks Creek, North Branch Dicks Creek

Subsequent Stream Network: Great Miami River, Dicks Creek

**Introduction**

Development of a Fact Sheet for NPDES permits is mandated by Title 40 of the Code of Federal Regulations, 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, 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 and Ohio Water Pollution Control Law (ORC 6111). Decisions to award variances to Water Quality Standards or promulgated effluent guidelines for economic or technological reasons will also be justified in the Fact Sheet where necessary.

No antidegradation review was necessary.

**Procedures for Participation in the Formulation of Final Determinations**

The proposed modification is tentative but shall become final on the effective date unless (1) an adjudication hearing is requested, (2) the Director withdraws and revises the proposed modification after consideration of the record of a public meeting or written comments, or (3) upon disapproval by the Administrator of the U.S. Environmental Protection Agency.

Within forty-five (45) days of publication of this notice, any person may submit written comments, a statement as to why the proposed modification should be changed, a request for a public meeting on the proposed modification and/or a request for notice of further actions concerning the modification. All communications timely received will be considered in the final formulation of the modification. If significant public interest is shown a public meeting will be held prior to finalization of the modification.

Within thirty (30) days of the issuance of the proposed modification any officer of an agency of the state or of a political subdivision, acting in his representative capacity or any person aggrieved or adversely affected by issuance of it may request an adjudication hearing by submitting a written objection in accordance with Ohio Revised Code Section 3745.07. Since all other conditions of the permit remain in effect, a hearing may not be requested on any issues other than the proposed modification. If an adjudication hearing is requested, the existing NPDES permit will remain in effect until the hearing is resolved. Following the finalization of the modification by the Director, any person who was a party to an adjudication hearing may appeal to the Environmental Review Appeals Commission.

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 addressed to:

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

Interested persons are invited to submit written comments upon the proposed modification. Comments should be submitted 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 and Compliance Section  
Lazarus Government Center  
P.O. Box 1049  
Columbus, Ohio 43216-1049**

The OEPA 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.

**Location of Discharge/Receiving Water Use Classification**

Cleveland-Cliffs Steel Corporation discharges at River Mile 51.45 to the Great Miami River (Outfalls 011 and 012). Outfalls 002, 003, 006, 008, 009 and 015 discharge to Dicks Creek at River Miles 2.92, 3.80, 3.6, 3.9, 3.6 and 4.15, respectively. Outfall 004 discharges to the North Branch of Dicks Creek at RM 0.22. North Branch enters Dicks Creek at RM 5.11; Dicks Creek enters the Great Miami River at RM 47.61. Figure 1 shows the approximate location of the facility.

Dicks Creek is described by Ohio EPA River Code: 14-018, Hydrologic Unit Code (HUC): 05080002-07-04, County: Butler, Ecoregion: Eastern Corn Belt Plains. Dicks Creek is designated Modified Warmwater Habitat (MWH) from RM 5.4 (Cincinnati-Dayton Road) to RM 2.4 (Yankee Road); the rest of Dicks Creek is designated Warmwater Habitat (WWH). The entire length of Dicks Creek is designated Agricultural Water Supply (AWS), Industrial Water Supply (IWS) and Primary Contact Recreation (PCR), although from RM 4.15 to the mouth the AWS is for irrigation only and the fluoride criteria is 15 mg/L.

The North Branch of Dicks Creek is described by Ohio EPA River Code: 14-019, U.S. EPA River Reach Code: 05080002-07-04, County: Butler, Ecoregion: Eastern Corn Belt Plains. North Branch is designated WWH from the headwaters to RM 1.0 (Breiel Boulevard) and MWH from RM 1.0 to the mouth. The entire length of North Branch is designated Agricultural Water Supply (AWS), Industrial Water Supply (IWS) and Primary Contact Recreation (PCR).

This segment of the Great Miami River is described by Ohio EPA River Code: 14-001, Large River Assessment Unit: 05080002-90-01, County: Butler, Ecoregion: Eastern Corn Belt Plains. This segment of the Great Miami River is designated for the following uses under Ohio's WQS (OAC 3745-12): Warmwater Habitat, General High Quality Water, 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**

Cleveland-Cliffs Steel Middletown Works is a fully integrated steel plant producing flat rolled steel. Cleveland-Cliffs produces intermediate products of pig iron and coke. The plant also conducts steel coating and finishing operations. The industrial processes at the facility include coke making, blast furnace, basic oxygen furnace, vacuum degassing, hot forming and cold forming of steel, continuous casting, acid pickling, alkaline cleaning and coating of steel (see Figure 2).

The process operations at this facility are classified in the Standard Industrial Classification (SIC) category 3312, “Steel Works, Blast Furnace, Rolling”. The process wastewaters generated from these operations are regulated under the following federal effluent guidelines:

Part 420 – Iron and Steel Manufacturing:

- Iron Making
- Steel Making
- Hot Forming
- Cold Forming
- Acid Pickling
- Alkaline Cleaning
- Hot Dip Galvanizing

Part 433 – Metal Finishing (Electroplating)

Cleveland-Cliffs Steel obtains water from 3 sources. Water for process and cooling waters is drawn from the Great Miami River and from on-site wells; potable water is from the City of Middletown.

## **Description of Existing Discharge**

Cleveland-Cliffs Steel has seven outfalls. Five discharges to Dicks Creek (Outfalls 015, 003, 002, 008 and 009), one discharge to North Branch Dicks Creek (Outfall 004), and one discharge to the Great Miami River (Outfall 011). Various treatment systems discharge to Outfalls 015, 003, 004 and 011; these treatment systems are designated in the NPDES permit as in-plant monitoring points that measure compliance with the federal effluent guideline limitations before mixing with non-process wastewaters. These monitoring points are necessary because federal rules (40 CFR 125.3) forbid the use of dilution to meet these standards.

Table 1 highlights the final outfalls, internal monitoring stations, wastewater sources, treatment processes, discharge/receiving streams and associated flows at Cleveland-Cliffs Steel Middletown Works. Figure 2 provides a flow schematic of the wastewater sources and supplies associated with this facility.

## **Assessment of Impact on Receiving Waters**

The most recent biological and water quality report lists Dicks Creek as impaired for its aquatic life use, primarily due to high levels of total dissolved solids.

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 11) 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 *Ohio 2022 Integrated Water Quality Monitoring and Assessment Report* lists the Dicks Creek watershed as impaired based on data collected and reported in the *Biological and Water Quality Study of the Lower Great Miami River and Select Tributaries*, published in 2012. The report indicated that the lower segment of Dicks Creek was impaired for total dissolved solids, nutrients, organic priority pollutants and habitat modifications due to the following: natural sources, municipal sources, contaminated sediment, crop production, landfills and Cleveland-Cliffs Steel discharges. Specifically, low fish numbers and biomass resulted in MIwb scores that were just below levels associated with use attainment. While these impacts are not solely related to total filterable residue, Ohio EPA noted exceedances of specific conductance criteria and total filterable residue in the lower reach of Dicks Creek.

In 2021, Ohio EPA collected additional biological data in Dicks Creek, for which a formal report has not been published. The data indicated full attainment of the aquatic life uses in Dicks Creek and the downstream segment of the Great Miami River. Details on the survey results are presented in Table 4.

The Biological and Water Quality Study of the Lower Great Miami River and Select Tributaries is on Ohio EPA's web site at:  
<https://dam.assets.ohio.gov/image/upload/epa.ohio.gov/Portals/35/documents/GMR2012TSD.pdf>.

The full Integrated Report is available through the Ohio EPA, Division of Surface Water website at:  
<https://epa.ohio.gov/monitor-pollution/maps-and-advisories/integrated-water-quality-report-2022>.

## **Basis of the Modification**

On February 22, 2022, Cleveland-Cliffs Steel Corporation filed a notice of appeal before the Environmental Review Appeals Commission (ERAC) on NPDES permit 1ID00001\*MD, issued on January 25, 2022. The primary basis of the filing is the establishment of fictitious outfall 099 and the associated effluent limitations.

In response to the appeal, Ohio EPA and Cleveland-Cliffs Steel Corporation have engaged in continued technical settlement discussions regarding regulation of total filterable residue discharges from the facility. Based on these discussions, as well as new chemical and biological data that was not available at the time of the permit renewal, Ohio EPA proposes modifications to the NPDES permit that support attainment of WQS and use designations in the receiving streams.

## **Summary of Changes**

Removal of fictitious monitoring station 1ID00001099 and the associated compliance schedule in Part I, C.1 is proposed. Previously, this station was included to be protective of downstream aquatic life impacts from the cumulative contribution of total filterable residue from all discharges to Dicks Creek. Since the 2021 biological survey showed attainment of the aquatic life use, it has been determined that discharge conditions supported the use designation at the time of, and prior to the sampling. As an alternative, trigger concentrations for total filterable residue are proposed for outfalls 002, 003, and 015 (Part I, A), based on the effluent concentrations for the respective outfalls for the period June 2016 to May 2021. Details on these values are in Table 3.

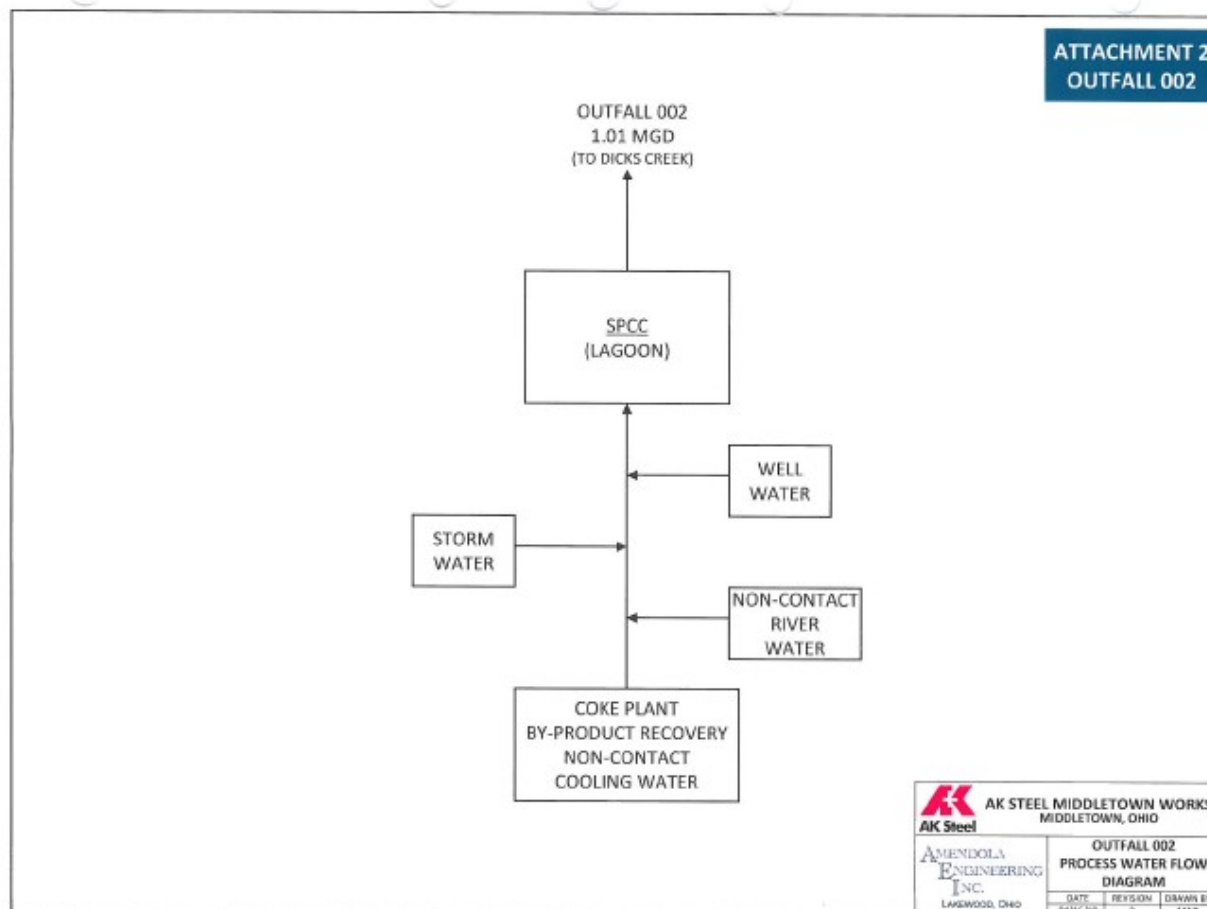
Addition of alternate biocriteria-based limits for total filterable residue is proposed at outfall 1ID00001004. For use of the biological criteria narrative, the Director is required to establish water quality-based effluent limits consistent with attainment of the designated use. These limits are to be representative of discharge impacts to the stream prior to the collection of biological data that demonstrates attainment. The primary purpose of imposing biologically protective limits is to protect the local biological community. In this specific case, biological sampling on Dicks Creek commenced on July 20, 2021 and concluded on September 3, 2021. It is most appropriate to consider effluent data immediately preceding and during the survey in the biocriteria limit calculations.

Ohio EPA proposes a final concentration limit of 2,126 mg/L based on the PEQ values for the period September 2018 to August 2021. Data from this period adequately captures variation in effluent levels of total filterable residue that may be expected in the future. Table 2 contains the PEQs and data considered in the calculation. A mass loading limit is also proposed based on the concentration limit and an expected discharge flow provided by Cleveland-Cliffs (4.87 MGD). This new representative flow is calculated based on the existing flow and consideration of additional raw river water and groundwater to be used to augment the discharge and lower pollutant concentrations.

As a general administrative change, outfall 1ID00001012 is proposed to be removed from the permit. The permittee requested this change during the appeal period, as the outfall does not exist.

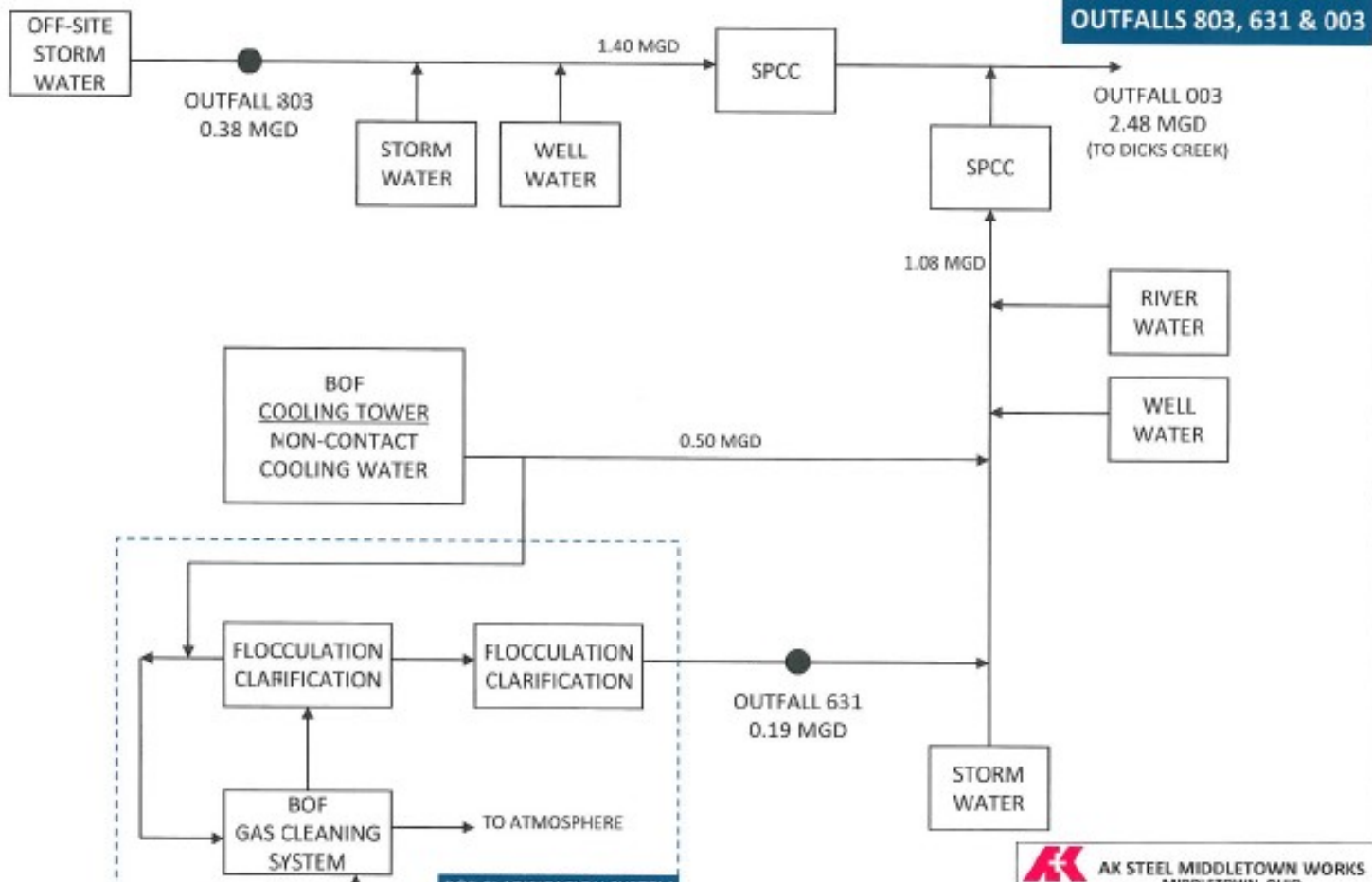


Figure 2. Flow Diagram for Cleveland-Cliffs Middletown Works





**ATTACHMENT 2  
OUTFALLS 803, 631 & 003**



**NOTES**  
 (1) ALL TREATED RIVER WATER IS FROM THE GREAT MIAMI RIVER  
 (2) ALL FLOWS ARE APPROXIMATE

**AK Steel** AK STEEL MIDDLETOWN WORKS  
 MIDDLETOWN, OHIO

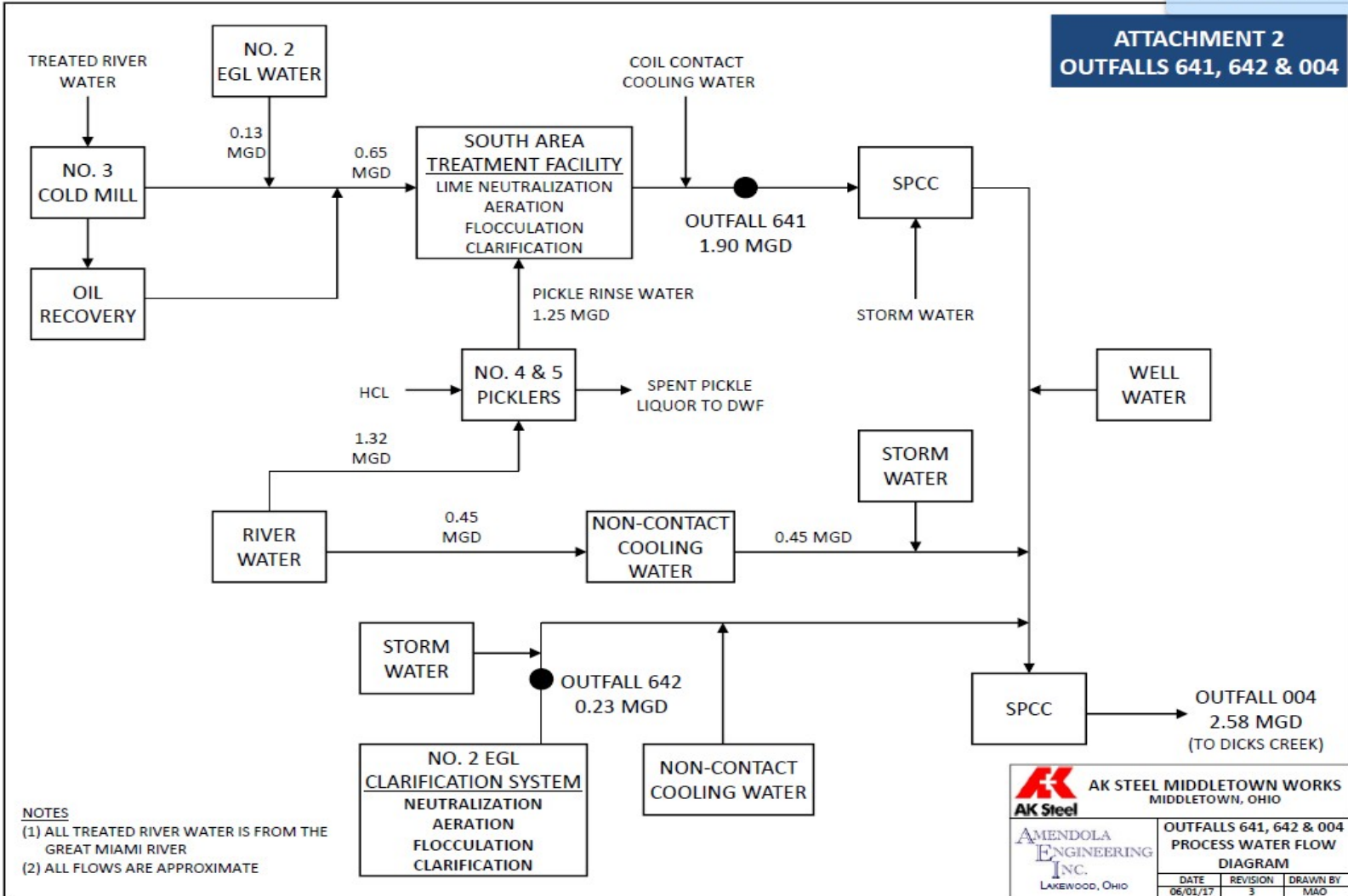
**AMENDOLA ENGINEERING INC.**  
 LAKWOOD, OHIO

**OUTFALLS 803, 631 & 003  
 PROCESS WATER FLOW  
 DIAGRAM**

DATE	REVISION	DRAWN BY
04/26/18	2	MMZ

Click on Sign to add text and signatures on a PDF file.

**ATTACHMENT 2  
OUTFALLS 641, 642 & 004**



**NOTES**  
 (1) ALL TREATED RIVER WATER IS FROM THE GREAT MIAMI RIVER  
 (2) ALL FLOWS ARE APPROXIMATE

NO. 2 EGL CLARIFICATION SYSTEM  
 NEUTRALIZATION  
 AERATION  
 FLOCCULATION  
 CLARIFICATION

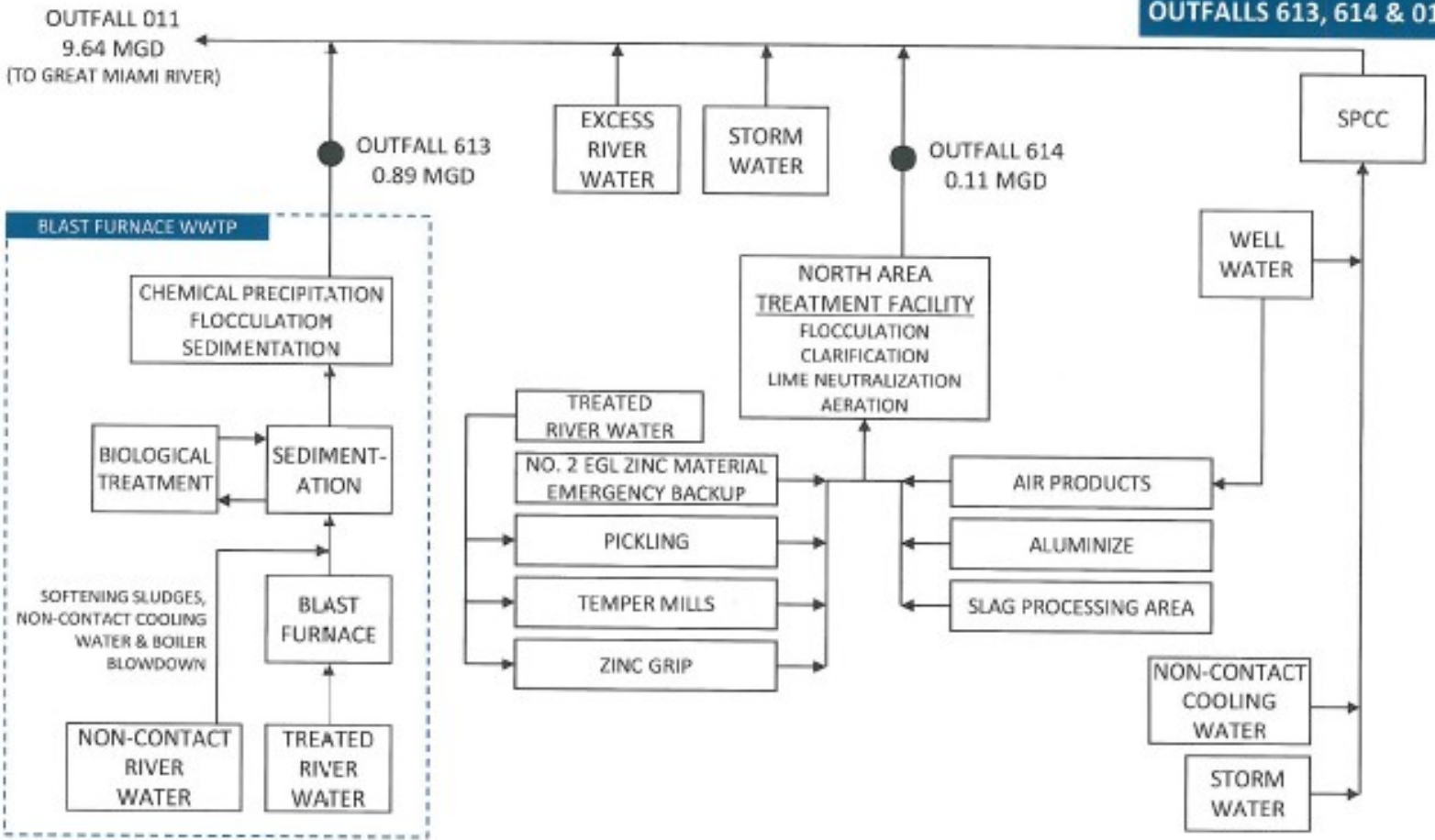
NON-CONTACT COOLING WATER

**AK Steel** AK STEEL MIDDLETOWN WORKS  
 MIDDLETOWN, OHIO

AMENDOLA ENGINEERING INC.  
 LAKWOOD, OHIO

OUTFALLS 641, 642 & 004 PROCESS WATER FLOW DIAGRAM		
DATE	REVISION	DRAWN BY
06/01/17	3	MAO

**ATTACHMENT 2  
OUTFALLS 613, 614 & 011**



**NOTES**  
 (1) ALL TREATED RIVER WATER IS FROM THE GREAT MIAMI RIVER  
 (2) ALL FLOWS ARE APPROXIMATE

**AK Steel** AK STEEL MIDDLETOWN WORKS  
MIDDLETOWN, OHIO

**AMENDOLA ENGINEERING Inc.**  
LAKWOOD, Ohio

**OUTFALLS 613, 614 & 011  
PROCESS WATER FLOW  
DIAGRAM**

DATE	REVISION	DRAWN BY
04/16/11	2	MMJ



**Table 1. Monitoring Stations**

<b>Station #</b>	<b>Wastewater Source</b>	<b>Treatment Utilized</b>	<b>Discharge/ Receiving Stream</b>	<b>Average Flow Rate (MGD)</b>
011	Treated process water (in-plant stations 613 and 614), non-contact cooling water, storm water runoff, boiler water, zeolite rinse, Kinney Rinse	None at final outfall (See 001, 613, 614)	Great Miami River	9.64
001	Calculate sum of stations 613 and 614	(See 613 and 614)	Outfall 011	0.995
613	Treated process wastewater from the blast furnace, boiler, and water softening process	Settling, activated sludge aeration, chemical precipitation, flocculation, settling, landfilling of sludge	Outfall 011	0.89
614	Process water from cold temper mills, acid pickling, alkaline cleaning, fume scrubbers, hot coating lines, inorganic chemicals, oxygen and nitrogen production, and non-contact cooling water from oxygen/nitrogen production	Oil skimming, neutralization, chemical precipitation, chemical oxidation (aeration), flocculation, settling, vacuum filtration and landfilling of sludge	Outfall 011	0.105
002	Non-contact cooling water from by-products area of coke plant, other non-contact cooling waters and storm runoff	None	Dicks Creek	1.01
003	Treated process water from basic oxygen furnace (in-plant station 631), cooling tower blowdown, storm water runoff	None at final outfall (see 631)	Dicks Creek	2.48
631	Treated process wastewater from basic oxygen furnace (steel making)	Settling, flocculation, vacuum filtration and landfilling of sludge	Outfall 003	0.187
803	Storm water run-on from the City of Middletown	None	Outfall 003	0.38

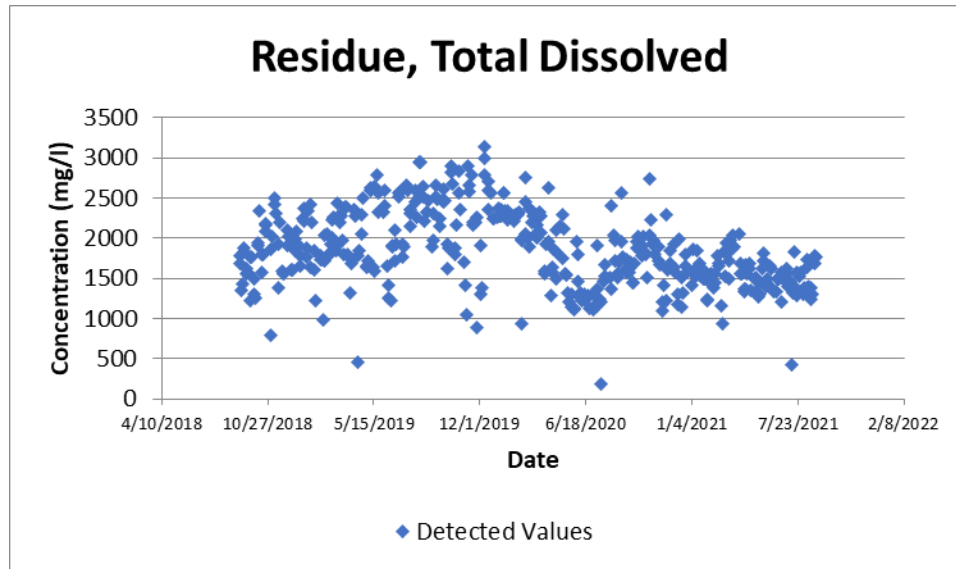
Station #	Wastewater Source	Treatment Utilized	Discharge/ Receiving Stream	Average Flow Rate (MGD)
004	Treated process water (in-plant stations 641 and 642), non-contact cooling water from the annealing process, storm water runoff	None at final outfall (See 641, 642)	North Branch Dicks Creek	2.58
641	Treated process water from cold temper mill, acid pickling, alkaline cleaning, fume scrubbers	Oil skimming, chemical precipitation, neutralization, chemical oxidation (aeration), flocculation, settling, vacuum filtration and landfilling of sludge	Outfall 004	1.90
642	Treated process wastewater from the electrogalvanizing line	Chemical precipitation, neutralization, chemical oxidation (aeration), flocculation, settling, rapid sand filtration and landfilling of sludge	Outfall 004	0.23
015	Treated process water from Outfall 005, non-contact cooling water, storm runoff	None at final outfall (See 005)	Dicks Creek	0.74
005	Treated process water from hot strip mill, continuous caster and vacuum degassing	Settling, flocculation, settling, vacuum filtration and landfilling of sludge	Outfall 015	0.36
006	Storm water runoff	None	Dicks Creek	Varies with rainfall
008	Storm water runoff	None	Dicks Creek	Varies with rainfall
009	Storm water runoff from the Cleveland-Cliffs landfill	Settling ponds	Dicks Creek	0.72 (when discharging)

**Table 2. Outfall 11D00001004 Biocriteria Support Data (Total Filterable Residue)**

Date	Value	Date	Value	Date	Value	Date	Value	Date	Value
9/4/2018	1780	12/26/2018	1660	4/17/2019	1840	8/15/2019	2510	12/10/2019	2790
9/5/2018	1690	12/27/2018	1780	4/22/2019	2060	8/16/2019	2640	12/11/2019	3140
9/6/2018	1350	1/2/2019	2250	4/23/2019	2290	8/19/2019	2210	12/16/2019	2700
9/10/2018	1430	1/3/2019	2370	4/24/2019	2500	8/22/2019	2330	12/17/2019	2350
9/11/2018	1830	1/4/2019	2210	5/1/2019	1650	8/23/2019	2330	12/18/2019	2600
9/12/2018	1870	1/8/2019	1770	5/2/2019	1630	8/26/2019	2460	12/23/2019	2560
9/17/2018	1620	1/9/2019	1880	5/3/2019	1720	9/3/2019	1890	12/26/2019	2250
9/18/2018	1550	1/10/2019	2340	5/8/2019	2590	9/4/2019	1970	12/27/2019	2250
9/19/2018	1580	1/15/2019	2420	5/9/2019	2620	9/5/2019	2300	1/2/2020	2270
9/24/2018	1760	1/16/2019	1630	5/10/2019	2590	9/9/2019	2520	1/3/2020	2260
9/25/2018	1220	1/17/2019	2190	5/15/2019	1630	9/10/2019	2650	1/6/2020	2370
9/26/2018	1770	1/22/2019	1600	5/16/2019	1590	9/11/2019	2490	1/8/2020	2280
10/1/2018	1500	1/23/2019	1840	5/17/2019	2640	9/16/2019	2140	1/9/2020	2360
10/2/2018	1300	1/24/2019	1220	5/22/2019	2780	9/17/2019	2250	1/10/2020	2280
10/3/2018	1260	2/4/2019	1780	5/23/2019	2560	9/20/2019	2460	1/15/2020	2570
10/8/2018	1910	2/5/2019	1730	5/24/2019	2330	9/23/2019	2450	1/16/2020	2570
10/9/2018	1940	2/7/2019	1740	6/3/2019	2330	9/24/2019	2610	1/17/2020	2340
10/10/2018	2340	2/8/2019	984	6/4/2019	2410	9/25/2019	2460	1/22/2020	2340
10/15/2018	1800	2/11/2019	2030	6/5/2019	2590	10/1/2019	1920	1/23/2020	2230
10/16/2018	1580	2/12/2019	1710	6/10/2019	1660	10/2/2019	1620	1/24/2020	2270
10/17/2018	1790	2/15/2019	2060	6/11/2019	1250	10/3/2019	1870	2/3/2020	2240
10/22/2018	2170	2/18/2019	1780	6/12/2019	1420	10/8/2019	2820	2/4/2020	2210
10/23/2018	2180	2/19/2019	1790	6/17/2019	1230	10/9/2019	2890	2/5/2020	2290
10/24/2018	2090	2/22/2019	1920	6/18/2019	1900	10/10/2019	2670	2/10/2020	2290
11/1/2018	1860	2/25/2019	2000	6/19/2019	1910	10/15/2019	1870	2/11/2020	2310
11/2/2018	800	2/26/2019	2220	6/24/2019	2100	10/16/2019	1800	2/12/2020	2330
11/5/2018	2020	3/1/2019	2260	6/25/2019	1720	10/17/2019	2160	2/17/2020	1970
11/8/2018	2420	3/4/2019	1850	6/26/2019	1930	10/22/2019	2570	2/18/2020	934
11/9/2018	2500	3/5/2019	1890	7/1/2019	2510	10/23/2019	2830	2/19/2020	1990
11/12/2018	2300	3/8/2019	2430	7/2/2019	2560	10/24/2019	2350	2/24/2020	2050
11/15/2018	1920	3/11/2019	2190	7/3/2019	2580	11/1/2019	1700	2/25/2020	2450
11/16/2018	1390	3/12/2019	2290	7/8/2019	1930	11/4/2019	1420	2/26/2020	2760
11/19/2018	2200	3/15/2019	2270	7/9/2019	1770	11/5/2019	1050	3/2/2020	2010
11/24/2018	1590	3/18/2019	1980	7/10/2019	1890	11/9/2019	2900	3/3/2020	1900
11/25/2018	1560	3/19/2019	1800	7/15/2019	2630	11/11/2019	2580	3/4/2020	2370
11/26/2018	1560	3/22/2019	2380	7/16/2019	2650	11/12/2019	2650	3/9/2020	2190
12/3/2018	1910	3/25/2019	2390	7/17/2019	2590	11/15/2019	2780	3/10/2020	2330
12/4/2018	2100	3/26/2019	1800	7/22/2019	2310	11/18/2019	2200	3/11/2020	2280
12/5/2018	2020	4/1/2019	1320	7/23/2019	2150	11/19/2019	2170	3/16/2020	2050
12/10/2018	1610	4/2/2019	1740	7/24/2019	2350	11/22/2019	2200	3/17/2020	2000
12/11/2018	2000	4/3/2019	1680	8/1/2019	2600	11/25/2019	886	3/18/2020	2160
12/12/2018	1610	4/8/2019	2350	8/2/2019	2450	11/26/2019	2260	3/23/2020	2330
12/17/2018	1840	4/9/2019	2270	8/5/2019	2260	12/2/2019	1910	3/24/2020	2270
12/18/2018	1990	4/10/2019	2340	8/8/2019	2520	12/3/2019	1300	3/25/2020	2070
12/19/2018	2080	4/15/2019	456	8/9/2019	2940	12/4/2019	1380	4/1/2020	1590

Date	Value	Date	Value	Date	Value	Date	Value	Date	Value
12/22/2018	1920	4/16/2019	1780	8/12/2019	2950	12/9/2019	3000	4/2/2020	1560
4/3/2020	1930	8/3/2020	1510	11/24/2020	1690	3/17/2021	1970	7/15/2021	1830
4/8/2020	2630	8/4/2020	2410	11/25/2020	1640	3/22/2021	2040	7/19/2021	1390
4/9/2020	1950	8/5/2020	1370	12/1/2020	1630	3/23/2021	1880	7/20/2021	1280
4/13/2020	1290	8/10/2020	2040	12/2/2020	1930	3/24/2021	1890	7/22/2021	1580
4/15/2020	1630	8/11/2020	1710	12/3/2020	1570	4/3/2021	2060	7/26/2021	1520
4/16/2020	1570	8/12/2020	1980	12/8/2020	1180	4/5/2021	1680	7/27/2021	1570
4/17/2020	1860	8/17/2020	1560	12/9/2020	1310	4/6/2021	1550	8/2/2021	1370
4/22/2020	2100	8/18/2020	1510	12/10/2020	1990	4/8/2021	1560	8/3/2021	1310
4/23/2020	1830	8/19/2020	1700	12/15/2020	1510	4/12/2021	1370	8/4/2021	1380
4/24/2020	1500	8/24/2020	1950	12/16/2020	1150	4/13/2021	1330	8/9/2021	1630
5/1/2020	2150	8/25/2020	2570	12/17/2020	1320	4/15/2021	1370	8/10/2021	1740
5/4/2020	1750	8/26/2020	1760	12/22/2020	1800	4/16/2021	1670	8/11/2021	1400
5/5/2020	2290	9/1/2020	1600	12/23/2020	1660	4/17/2021	1550	8/16/2021	1240
5/8/2020	2120	9/2/2020	1730	12/26/2020	1580	4/22/2021	1680	8/17/2021	1380
5/11/2020	1560	9/3/2020	1580	1/4/2021	1410	4/23/2021	1620	8/18/2021	1310
5/12/2020	1540	9/8/2020	1580	1/5/2021	1570	4/25/2021	1350	8/23/2021	1780
5/15/2020	1320	9/9/2020	1700	1/6/2021	1860	5/3/2021	1500	8/24/2021	1690
5/18/2020	1210	9/10/2020	1630	1/11/2021	1520	5/4/2021	1330	8/25/2021	1760
5/21/2020	1150	9/15/2020	1450	1/12/2021	1620	5/5/2021	1510		
5/22/2020	1300	9/16/2020	1440	1/13/2021	1840	5/10/2021	1270		
5/26/2020	1130	9/17/2020	1690	1/18/2021	1590	5/11/2021	1440		
5/27/2020	1110	9/22/2020	1950	1/19/2021	1690	5/12/2021	1300		
6/1/2020	1950	9/23/2020	1870	1/20/2021	1520	5/17/2021	1620		
6/2/2020	1790	9/24/2020	2020	1/25/2021	1490	5/18/2021	1710		
6/3/2020	1460	10/1/2020	1780	1/26/2021	1600	5/19/2021	1810		
6/8/2020	1260	10/2/2020	1910	1/27/2021	1500	5/24/2021	1400		
6/9/2020	1320	10/5/2020	2020	2/1/2021	1230	5/25/2021	1440		
6/10/2020	1220	10/8/2020	1820	2/2/2021	1240	5/26/2021	1500		
6/15/2020	1240	10/9/2020	1790	2/3/2021	1480	6/1/2021	1650		
6/16/2020	1300	10/12/2020	1510	2/8/2021	1530	6/2/2021	1620		
6/17/2020	1240	10/15/2020	2030	2/9/2021	1450	6/3/2021	1390		
6/22/2020	1280	10/16/2020	2730	2/10/2021	1550	6/8/2021	1330		
6/23/2020	1270	10/19/2020	2230	2/15/2021	1390	6/13/2021	1330		
6/24/2020	1130	10/22/2020	1920	2/16/2021	1450	6/14/2021	1500		
7/1/2020	1110	10/23/2020	1970	2/17/2021	1560	6/15/2021	1500		
7/2/2020	1310	10/26/2020	1800	2/22/2021	1780	6/16/2021	1500		
7/6/2020	1170	11/2/2020	1720	2/23/2021	1660	6/17/2021	1510		
7/8/2020	1140	11/3/2020	1890	2/24/2021	1680	6/22/2021	1210		
7/9/2020	1370	11/4/2020	1670	3/1/2021	1160	6/23/2021	1580		
7/10/2020	1910	11/9/2020	1090	3/2/2021	932	6/24/2021	1490		
7/15/2020	1240	11/10/2020	1200	3/6/2021	1830	7/1/2021	1550		
7/16/2020	190	11/11/2020	1420	3/8/2021	1520	7/2/2021	1620		
7/17/2020	1210	11/16/2020	2290	3/11/2021	1940	7/5/2021	1400		
7/22/2020	1470	11/17/2020	1220	3/12/2021	1810	7/8/2021	1460		
7/23/2020	1520	11/18/2020	1610	3/15/2021	1500	7/12/2021	424		
7/24/2020	1670	11/23/2020	1840	3/16/2021	1710	7/13/2021	1320		

# of Obs.	# of Obs. > MDL	# of Obs. excluded	Min. Value	Max. Value	MaxChk Value	PEQ Method	R <sup>2</sup> Value	PEQ average	PEQ max.
432	432	0	190	3140	2093.3	B	0.89608	2126	2929.3



\*Biological survey of Dicks Creek concluded at the end of August 2021. Data compiled here is representative of discharge conditions immediately prior to and during the sampling period.

**Table 3. Dicks Creek Total Filterable Residue Trigger Calculations**

Outfall	Units	Number of Samples	Number > MDL	PEQ Average	PEQ Average + 25%
11D00001002	mg/L	60	60	975.5	1219
11D00001003	mg/L	60	60	657.1	821.3
11D00001015	mg/L	59	59	1109	1387

\*PEQ values based on DMR data collected during the period June 2016 to May 2021.

**Table 4. Use Attainment Table**

Station	Location	Assess. Unit	Ecoregion/ ALU	River Mile	Drain. Area (sq. mi)	IBI	Mlwb	ICI	QHEI	Attain. Status	Causes	Sources
GREAT MIAMI RIVER (14-001-000)												
H09W28	GREAT MIAMI R. N OF MIDDLETOWN @ ST. RT. 4	05080002 07 02	ECBP/WWH	55.14 <sup>B</sup>	3117.0	52	10.36	54	78.3	Full		
H09W78	GREAT MIAMI R. DST. AK STEEL 011, BETWEEN CSOS	05080002 07 02	ECBP/WWH	51.24 <sup>B</sup>	3137.0	50	9.89	28	75.8	NA <sup>A</sup>		
600330	GREAT MIAMI R. NEAR MIDDLETOWN @ ST. RT. 73	05080002 07 06	ECBP/WWH	49.27 <sup>B</sup>	3189.0	52	9.79	52	83.3	Full		
201886	GREAT MIAMI R. UPST. 0.4 MI. UPST. LIBERTY-FAIRFIELD RD.	05080002 07 06	ECBP/WWH	43.6 <sup>B</sup>	3278.0	50	10.1	54	95	Full		
610090	GREAT MIAMI R. @ LIBERTY-FAIRFIELD RD.	05080002 07 06	ECBP/WWH	43.23 <sup>B</sup>	3280.0	48	9.19	42	71	Full		
H11W35	GREAT MIAMI R. 0.1 MI. UPST. HAMILTON WWTP	05080002 09 02	ECBP/WWH	34.1 <sup>B</sup>	3636.0	56	10.84	54	79	Full		
H11C01	GREAT MIAMI R. DST FERNALD, 1.0 MI DST. DRY RUN	05080002 09 04	IP/WWH	24.55	3799.0	-	-	G	78	(Full)		
H11W20	GREAT MIAMI R. AT MIAMITOWN @ HARRISON RD.	05080002 09 06	IP/WWH	15.49 <sup>B</sup>	3838.0	44	10.45	56	89.3	Full		
DICKS CREEK (14-018-000)												
H09S20	DICKS CREEK NEAR MIDDLETOWN @ CINCINNATI-DAYTON RD.	05080002 07 04	ECBP/WWH	5.45 <sup>H</sup>	9.8	44	-	40	63.8	Full		
H09S19	DICKS CREEK AT MIDDLETOWN @ ROAD DST. NORTH BRANCH	05080002 07 04	ECBP/MWH-C	4.7 <sup>H</sup>	17.9	51	-	48	63	Full		

H09S22	DICKS CREEK UPST. AK STEEL 015, DST. SHAKER CREEK	05080002 07 04	ECBP/MWH-C	4.11 <sup>W</sup>	39.0	38	8.24	34	46.5	Full
H09S18	DICKS CREEK DST. AK STEEL 003 AND 015	05080002 07 04	ECBP/MWH-C	3.62 <sup>W</sup>	41.0	46	9.18	34	71.8	Full
H09G05	DICKS CREEK AT MIDDLETOWN, UPST YANKEE RD/DST LANDFILL TRIB	05080002 07 04	ECBP/MWH-C	2.6 <sup>W</sup>	44.5	38	8.58	44	72.4	Full
H09K22	DICKS CREEK AT MIDDLETOWN @ AMANDA RD.	05080002 07 04	ECBP/WWH	1.4 <sup>W</sup>	48.0	48	9.5	44	73.9	Full

\* Aquatic life use (ALU) attainment status for stations sampled in the Lower Great Miami River and Dicks Creek based on data collected June – September 2021. The Index of Biotic Integrity (IBI), Modified Index of well-being (MIwb), and Invertebrate Community Index (ICI) are scores based on the performance of the biotic community. The Qualitative Habitat Evaluation Index (QHEI) is a measure of the ability of the physical habitat of the stream to support a biotic community.

<sup>A</sup>Mixing zone – biocriteria do not apply.

<sup>B</sup>Boat site

<sup>H</sup>Headwater site

<sup>W</sup>Wading site

**Table 5. Final Modified Effluent Limits for Outfall 11D00001004**

Parameter	Units	Concentration		Loading (kg/day) <sup>a</sup>		Basis <sup>b</sup>
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
pH	S.U.	6.5 to 9.0				WQS
Oil & Grease	mg/L	--	10	--	--	WQS
Fluoride	mg/L	----- Monitor -----				RP/M <sup>c</sup>
Chronic toxicity, <i>Daphnia magna</i>	TUc	----- Monitor -----				M <sup>c</sup>
Acute toxicity, <i>Daphnia magna</i>	TUc	----- Monitor -----				BTJ
Total Residual Oxidants	mg/L	--	0.0024	--	0.027	WLA/OMZM
Flow Rate	MGD	----- Monitor -----				M <sup>c</sup>
Total Filterable Residue	mg/L	2126	--	39188	--	BN

<sup>a</sup> Effluent loadings based on:  
 Total filterable residue – 4.87 MGD  
 All other parameters – 2.92 MGD

<sup>b</sup> Definitions:  
 BN = Biocriteria narrative rule, OAC 3745-1-07(C)  
 BTJ = Best Technical Judgment  
 M = Division of Surface Water NPDES Permit Guidance 2: Determination of Sampling Frequency Formula for Industrial Waste Discharges  
 RP = Reasonable Potential for requiring water quality-based effluent limits and monitoring requirements in permits (OAC 3745-33-07(A))  
 WLA = Wasteload Allocation procedures (OAC 3745-2)  
 WLA/OMZM = Wasteload Allocation limited by Onside Mixing Zone Maximum  
 WQS = Ohio Water Quality Standards (OAC 3745-1)

<sup>c</sup> Monitoring of flow and other indicator parameters is specified to assist in the evaluation of effluent quality and treatment plant performance.