

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority?	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-1-01	E1c	must	If an NPDES permit for the activity is not in force, notice must be given to the director if the proposed application is for any of the following.	6111.041	federal	CWA Sec 104(L)(1)	Yes	yes	no
3745-1-01	F1a	Shall	On and after the effective date of this rule, the deposit of dredged material shall not result in a modeled increase in "bioaccumulation" of a "bioaccumulative chemical of concern"	6111.041	state general authority		Yes	no	no
3745-1-01	F1b	Shall	Beginning on and after July 1, 2020, there shall be no deposit of dredged material unless the director authorizes	6111.041	State required ORC 6111.32 (B) State 2020 Dredging ban		Yes	yes	no
3745-1-02	A	shall	Acronyms and abbreviations used in this chapter shall be defined as listed in this paragraph	6111.041	state general authority		Yes	no	no
3745-1-02	B	shall	Technical words used in this chapter shall be defined as listed in this paragraph	6111.041	state general authority		Yes	no	no
3745-1-02	B5	shall	The acute aquatic life criteria shall be met on the downstream perimeter of the acute mixing zone.	6111.041	state general authority		Yes	no	no
3745-1-02	B5	may not	"Acute mixing zone" means the mixture of receiving water and effluent adjacent to a treated or untreated discharge within which the acute aquatic life criteria may be exceeded but the inside mixing zone maximum criteria may not be exceeded	6111.041	state general authority		Yes	no	no
3745-1-02	B9	may not	(9)"Area of initial mixing" or "AIM" means the limited zone where discharge-induced mixing causes the effluent to rapidly mix with the receiving water such that the area may not be physically inhabitable to aquatic life. The inside mixing zone maximum criteria may be exceeded within the AIM but shall be met on the perimeter of the AIM.	6111.041	state general authority		Yes	no	no
3745-1-02	B9	shall	(9)"Area of initial mixing" or "AIM" means the limited zone where discharge-induced mixing causes the effluent to rapidly mix with the receiving water such that the area may not be physically inhabitable to aquatic life. The inside mixing zone maximum criteria may be exceeded within the AIM but shall be met on the perimeter of the AIM.	6111.041	state general authority		Yes	no	no
3745-1-02	B22	shall	The chronic aquatic life, human health, wildlife and agricultural water supply criteria shall be met on the downstream perimeter of the chronic mixing zone.	6111.041	state general authority		Yes	no	no
3745-1-02	B38	shall	All tributaries of estuaries shall be considered estuaries below the lake Erie mean high water level.	6111.041	state general authority		Yes	no	no
3745-1-02	B62	shall	The mixing zone shall be considered a place where wastewater and receiving water mix, not a place where wastes are treated.	6111.041	state general authority		Yes	no	no
3745-1-02	B74	shall	A pollution prevention alternatives analysis shall demonstrate a good faith effort by the discharger to review equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials and improvements to housekeeping.	6111.041	state general authority		Yes	no	no
	B74	require	The discharger is not required to implement a pollution prevention alternative if it is not technically or economically feasible.	6111.041	state general authority		Yes	no	no
3745-1-02	B77	shall	Aquatic species designated as representative shall satisfy one or more of the following	6111.041	state general authority		Yes	no	no
3745-1-02	B77	may not	Species that are representative of the ecological, behavioral, and physiological requirements and characteristics of species determined in paragraphs (B)(77)(a) to (B)(77)(f) of this rule, but which themselves may not be representative	6111.041	state general authority		Yes	no	no
3745-1-03	A1	shall	All methods of analysis used in applying any of the chemical-specific and bacteriological criteria in this chapter shall be in accordance with those prescribed in 40 C.F.R. 136, except for chlorophyll a and pheophytin a, which shall be in accordance with EPA method 445.0, and free cyanide, which shall be in accordance with ASTM D7237-10, as cited in paragraph (B) of this rule.	6111.041	federal	40 CFR 136	Yes	yes	no
3745-1-03	A1	shall	All methods of analysis used in applying any of the chemical-specific and bacteriological criteria in this chapter shall be in accordance with those prescribed in 40 C.F.R. 136, except for chlorophyll a and pheophytin a, which shall be in accordance with EPA method 445.0, and free cyanide, which shall be in accordance with ASTM D7237-10, as cited in paragraph (B) of this rule.	6111.041	federal	40 CFR 136	Yes	yes	no
3745-1-03	A1	shall	All methods of analysis used in applying any of the chemical-specific and bacteriological criteria in this chapter shall be in accordance with those prescribed in 40 C.F.R. 136, except for chlorophyll a and pheophytin a, which shall be in accordance with EPA method 445.0, and free cyanide, which shall be in accordance with ASTM D7237-10, as cited in paragraph (B) of this rule.	6111.041	federal	40 CFR 136	Yes	yes	no

3745-1-03	A2	shall	All methods of sample collection and preservation used in applying any of the chemical-specific and bacteriological criteria in this chapter shall be in accordance with "Surface Water Field Sampling Manual for water quality parameters and flows" as cited in paragraph (B) of this rule.	6111.041	general authority		Yes	no	no
3745-1-03	A3	shall	Methods for conducting whole-effluent toxicity tests shall be in accordance with those prescribed in 40 C.F.R. 136, as cited in paragraph (B) of this rule.	6111.041	federal	40 CFR 136	Yes	yes	no
3745-1-03	A5	shall	Methods, data collection and data analysis requirements for applying the biological criteria in rule 3745-1-07 of the Administrative Code shall be in accordance with "Biological Criteria for the Protection of Aquatic Life" as cited in paragraph (B) of this rule.	6111.041	general authority/ federal requires	40 CFR 131.11	Yes	yes	no
3745-1-04	floating	shall	The following general water quality criteria shall apply to all surface waters of the state including mixing zones. To every extent practical and possible as determined by the director, these waters shall be as follows:	6111.041	federal - free froms	40 CFR 131.11	Yes	yes	no
3745-1-04	floating	shall	The following general water quality criteria shall apply to all surface waters of the state including mixing zones. To every extent practical and possible as determined by the director, these waters shall be as follows:	6111.041	federal - free froms	40 CFR 131.11	Yes	yes	no
3745-1-04	G	shall	For the purposes of applying paragraph (F) of this rule the collection of water samples shall adhere to all of the following specifications:	6111.041	general authority		Yes	no	no
3745-1-04	G1	shall	The samples shall be collected when flow is representative of steady state dry weather conditions, i.e., base flow or delayed flow.	6111.041	general authority		Yes	no	no
3745-1-04	G2	shall	The samples shall be collected at least two hours apart.	6111.041	general authority		Yes	no	no
3745-1-04	G3	shall	The samples shall be collected over a time period not to exceed thirty days.	6111.041	general authority		Yes	no	no
3745-1-04	H	shall	Nothing in paragraph (F) or (G) of this rule shall limit or otherwise change the applicability of paragraphs (A) to (E) of this rule.	6111.041	general authority		Yes	no	no
3745-1-05	A3b	shall	For the discharge of sanitary wastewater from alternative treatment technologies such as lagoon systems, land application and controlled discharge systems, constructed wetland systems or combined sewer overflow control systems effluent limitations shall be developed on a case-by-case basis.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	A3c	shall	For industrial direct discharges subject to federal effluent guidelines, the facility shall be designed to meet the most stringent of the new source performance standards, best conventional pollutant control technology, best available technology economically achievable and best practicable control technology currently available for the appropriate categorical guidelines of 40 C.F.R. 400 to 40 C.F.R. 471.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	A3d	shall	For categorical industrial indirect dischargers, the facility shall be designed to meet categorical pretreatment standards for existing sources or categorical pretreatment standards for new sources as contained in Chapter 3745-3 of the Administrative Code.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	A3f	shall	For wastewater discharges resulting from clean-up of response action sites contaminated with volatile organic compounds, the facility shall include air- stripping, carbon columns, both, or equivalent treatment capable of achieving final thirty-day average effluent limits of five micrograms per liter or less for each individually regulated volatile organic compound.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	A10	shall	"High quality waters" mean all surface waters of the state except limited quality waters. Pursuant to division (A)(2) of section 6111.12 of the Revised Code, four categories of high quality waters are hereby recognized and described in this paragraph. Categorizations of specific water bodies shall follow the procedures in paragraph (E) of this rule.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	A10b	shall	"Superior high quality waters" are surface waters that possess exceptional ecological values and that have been so categorized pursuant to paragraph (E) of this rule. Except as provided in this rule, exceptional ecological values shall be assessed based upon a combination of the presence of threatened or endangered species and a high level of biological integrity.	6111.041, 6111.12	state		Yes	yes	no
3745-1-05	A10b	shall	The following factors shall be considered in determining exceptional ecological value: providing habitat for Ohio or federal endangered species; providing habitat for Ohio threatened species; harboring stable populations of a declining fish species that coincide with the presence of suitable habitat for that species, or that coincide with an essential migration path between areas of suitable habitat for that species; and displaying a level of biological integrity equivalent to the exceptional warmwater habitat index of biotic integrity or invertebrate community index criteria values listed in rule 3745-1-07 of the Administrative Code.	6111.041, 6111.12	state		Yes	yes	no
3745-1-05	A11	shall	The system shall be designed to allow a discharge during winter months and required land application of the wastewater during summer months.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	A17bib	shall	All other contemporaneous increases or decreases attributable to other pollutant sources affecting the surface water segments under consideration and which are stipulated as a condition of the applicant's permit and which shall occur during the term of the applicant's permit.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)(ii)	Yes	yes	no

3745-1-05	A17biib	shall	All other contemporaneous increases or decreases attributable to other pollutant sources affecting the surface water segments under consideration and which are stipulated as a condition of the applicant's permit and which shall occur during the term of the applicant's permit.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)(ii)	Yes	yes	no
3745-1-05	A21	shall	"Permitted discharge flow" means the discharge flow specified in the national pollutant discharge elimination system permit, or permit to install application if not specified in a national pollutant discharge elimination system permit, and shall be representative of the typical wastewater flow to be discharged by a facility when the wastewater facility is operating at full capacity, and considering, where applicable, discharge flows during wet weather events.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B	shall	Except as provided in paragraphs (B)(2), (D) and (F) of this rule, projects or activities covered under paragraph (B)(1) of this rule shall be subject to an antidegradation review described in paragraph (C) of this rule.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	B1	shall	This rule shall apply to the following:	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	B1a3	shall	Long term control plans shall address planned sewer connections and development tributary to the collection system.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B2a	shall	Only the portion of the flow that the existing source was capable of discharging as of July 1, 1993 shall not be subject to the rule provisions.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B2g	shall	Local limits shall be established for the POTW pretreatment program, or equivalent, utilizing a ten per cent safety factor when performing the evaluation related to effluent limitations to protect water quality standards.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B3d	shall	This analysis shall include an evaluation of long-range plans outlined in state or local water quality management planning documents and applicable facility planning documents.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)(ii)	Yes	yes	no
3745-1-05	B4	shall	(4) Applications for section 401 water quality certifications are exempt from paragraph (B)(3) of this rule. Required submissions shall be determined in accordance with section 6111.30 of the Revised Code, Chapter 3745-32 of the Administrative Code and rules 3745-1-50 to 3745-1-54 of the Administrative Code	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C1	shall	Existing uses, which are determined using the use designations defined in rule 3745-1-07 of the Administrative Code, and the level of water quality necessary to protect existing uses, shall be maintained and protected.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	C1	shall	The director shall, pursuant to paragraph (C) of rule 3745-1-07 of the Administrative Code, prohibit increased concentrations of specific regulated pollutants that are incompatible with the attainment or restoration of the designated use.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	yes
3745-1-05	C1	shall	Existing wetland uses, as defined in rule 3745-1-53 of the Administrative Code, shall be maintained and protected in accordance with rules 3745-1-50 to 3745-1-54 of the Administrative Code.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	C2	shall	Except as provided in paragraph (D)(2) of this rule, any net increase in the discharge of a specific regulated pollutant resulting from a modification or new source shall, as a minimum, be controlled through best available demonstrated control technology relative to the specific regulated pollutant	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	C2	shall	Feasible management or regulatory programs pursuant to sections 208, 303 and 319 of the act shall be applied to nonpoint sources	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	no
3745-1-05	C3	shall	Except as provided in paragraphs (B)(2) and (D) of this rule, the director shall provide for public participation and intergovernmental coordination prior to taking action on all activities covered by paragraph (B)(1) of this rule using the provisions of this paragraph.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)	Yes	yes	yes
3745-1-05	C3a	shall	In accordance with Chapter 3745-49 of the Administrative Code, the director shall publish a public notice within thirty days regarding receipt of any permit application or state isolated wetland permit application covered by paragraph (B)(1) of this rule.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2), 40 CFR 124.10	Yes	yes	yes
3745-1-05	C3a	shall	The purpose of such notice shall be to allow for inspection and review of the application, to indicate that the project is subject to the provisions of this rule and whether any of the exclusions or waivers described in paragraph (D) of this rule apply	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C3a	shall	Public notice for section 401 water quality certification applications shall be published pursuant to the requirements in section 6111.30 of the Revised Code.	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3a	shall	Notices shall be sent by first class mail to all persons on the mailing list created pursuant to paragraph (C)(3)(d) of this rule.	6111.041, 6111.12	general		Yes	no	yes
3745-1-05	C3b	shall	The director shall develop an informational fact sheet for each permit or activity for which a public notice is issued in accordance with paragraph (C)(3)(a) of this rule	6111.041, 6111.12	state/federal	40 CFR 124.8	Yes	yes	yes
3745-1-05	C3b	shall	The purpose of such fact sheet shall be to:	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C3b	shall	These fact sheets shall be sent by first class mail, or alternative means as requested, to all persons on the mailing list created pursuant to paragraph (C)(3)(d) of this rule.	6111.041, 6111.12	state - need to look at federal procedural rules		Yes	yes	yes

3745-1-05	C3c	shall	All notices of public hearings required by paragraphs (C)(3)(e) and (C)(3)(f) of this rule shall be published once in a newspaper having general circulation in the county where the source, activity or facility is located	6111.041, 6111.12, 3745.07	state		Yes	yes	yes
3745-1-05	C3c	shall	The notice shall be published at least forty-five days before the hearing.	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3c	shall	Notices of hearings shall also be sent by first class mail, or by alternative means as requested, to all persons on the mailing list created pursuant to paragraph (C)(3)(d) of this rule.	6111.041, 6111.12, 3745.07	state		Yes	yes	yes
3745-1-05	C3d	shall	The director shall develop and maintain a list of persons and organizations who have expressed an interest in or may, by the nature of their purposes, activities or members, be affected by or have an interest in antidegradation reviews.	6111.041, 6111.12, 3745.07	state		Yes	yes	yes
3745-1-05	C3e	shall	Within ninety days of receipt of the application, the director shall hold a public hearing	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3e	shall	This public hearing shall be for the purpose of evaluating issues related to lower water quality and shall be prior to and separate from a public hearing on the proposed or draft action on the application	6111.041, 6111.12	state		Yes	yes	no
3745-1-05	C3e	shall	This public hearing shall be for the purpose of evaluating issues related to lower water quality and shall be prior to and separate from a public hearing on the proposed or draft action on the application	6111.041, 6111.12	state		Yes	yes	no
3745-1-05	C3f	shall	For general high quality waters other than category 3 wetlands and for limited quality waters, the director shall hold a public hearing...	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3f	shall	A public hearing shall be held for the issuance of any draft general national pollutant discharge elimination system permit.	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3f	shall	The director shall hold public hearings relative to issues of lower water quality as a concurrent hearing at the time of the draft or proposed action.	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3f	shall	For section 401 water quality certification applications and state isolated wetland permit applications, the public hearing shall precede any action of the director.	6111.041, 6111.12	state		Yes	yes	yes
3745-1-05	C3g	shall	A public notice of the director's proposed or draft action regarding the activity and its potential to lower water quality shall be published following the procedures in Chapter 3745-49 of the Administrative Code.	6111.041, 6111.12, 3745.07	state/federal	40 CFR 124.10	Yes	yes	yes
3745-1-05	C3g	shall	The director shall provide notification by first class mail, or alternative means as requested, to all interested parties identified through the procedures in paragraph (C)(3) of this rule.	6111.041, 6111.12, 3745.07	state/federal		Yes	yes	yes
3745-1-05	C3h	shall	The director shall notify the Ohio department of natural resources, the United States fish and wildlife service, the United States environmental protection agency and any affected local areawide planning agencies of all proposed activities that may lower water quality.	6111.041, 6111.12	federal	33 USC 1313(e)	Yes	yes	yes
3745-1-05	C3h	shall	the director shall notify the Ohio department of development and any affected local governmental units. The director or the other agencies may initiate additional intergovernmental coordination.	6111.041, 6111.12	federal	33 USC 1313(e)	Yes	yes	yes
3745-1-05	C4	shall	The director shall impose the following requirements on all activities covered by paragraph (B)(1) of this rule that discharge to outstanding national resource waters, or that discharge upstream of outstanding national resource waters.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)(ii)	Yes	yes	yes
3745-1-05	C4a	shall	Present ambient water quality in outstanding national resource waters shall not be degraded for any substance.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)(ii)	Yes	yes	no
3745-1-05	C4d	shall	For section 401 water quality certifications for outstanding national resource waters, demonstration of avoidance, minimization and mitigation of impacts shall serve as the applicant's non-degradation, minimal degradation and mitigative technique alternatives analysis as required in paragraph (B) of rule 3745-32-03 of the Administrative Code.	6111.041, 6111.12	state/federal	40 CFR 131.12(a)(2)(ii)	Yes	yes	no
3745-1-05	C5	shall	For waters other than outstanding national resource waters and limited quality waters, the director shall impose the following requirements on all activities covered by paragraph (B)(1) of this rule, except that for section 401 water quality certifications and state isolated wetland permits pursuant to section 6111.024 of the Revised Code for high quality waters that are wetlands...	6111.041, 6111.12	state/federal	40 CFR 131.	Yes	yes	yes
3745-1-05	C5	shall	, the director shall impose the requirements specified in rules 3745-1-50 to 3745-1-54 of the Administrative Code in lieu of paragraphs (C)(5) and (C)(8) of this rule.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C5	shall	, the director may apply the items in paragraphs (C)(5)(a) to (C)(5)(f) and (C)(5)(k) to (C)(5)(m) of this rule, may consider cumulative impacts as defined in paragraph (I) of rule 3745-1-50 of the Administrative Code, and shall consider whether the wetland is scarce regionally or statewide and the feasibility of replacing that wetland type, in making a decision whether to allow the lowering of water quality.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C5	shall	For section 401 water quality certifications for high quality waters, other than wetlands, demonstration of avoidance, minimization and mitigation of impacts shall serve as the applicant's non- degradation, minimal degradation and mitigative technique alternatives analysis as required in paragraph (B) of rule 3745-32-03 of the Administrative Code.	6111.041, 6111.12	federal	40 CFR 131.12	Yes	yes	no

3745-1-05	C5	shall	Any lowering of water quality shall not exceed the limitations specified in paragraph (C)(6) of this rule.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C5	shall	When making determinations regarding proposed activities that lower water quality the director shall consider the following:	6111.041, 6111.12	state/federal	40 CFR 131.12, 40 CFR 132, Part E	Yes	yes	yes
3745-1-05	C6	shall	In addition to the other provisions of paragraph (C) of this rule, the director shall not allow water quality to be lowered by more than as specified in this paragraph when acting on applications or activities covered by paragraph (B)(1) of this rule.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6a	shall	For outstanding state waters, the director shall reserve seventy per cent of the remaining available pollutant assimilative capacity	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6a	shall	Except as provided in paragraph (C)(7) of this rule, the reserved portion shall not be allocated to any source unless, and to the extent that, the source demonstrates that a smaller reserve will adequately protect resident or representative species.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6a	shall	The requirements of this paragraph shall not apply to any water body categorized as outstanding state water solely because of its exceptional recreational value.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C6b	shall	For lake Erie, new and existing sources shall be limited to the water body pollutant assimilative capacity as defined in paragraph (A)(28)(b) of this rule.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C6c	shall	For superior high quality waters, other than lake Erie and those waters covered by paragraph (C)(6)(e) of this rule, the director shall reserve thirty-five per cent of the remaining available pollutant assimilative capacity	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6c	shall	Except as provided in paragraph (C)(7) of this rule, the reserved portion shall not be allocated to any source unless, and to the extent that, the source demonstrates that a smaller reserve will adequately protect resident or representative species.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6c	shall	The higher set aside shall be established for specific pollutants or classes of pollutants through rule making pursuant to paragraph (E) of this rule.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6e	shall	For outstanding state waters so categorized because of exceptional recreational value the director shall:	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C6ei	shall	No permit shall be granted if the director finds that the project or discharge will result in a significant long term increase in the frequency and duration of bacteriological pollution.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	C8a	shall	The director shall assess each proposed activity covered by paragraph (B)(1) or (F) of this rule on a case-by-case basis	6111.041, 6111.12	state/federal	40 CFR 131.12, 40 CFR Part 132, Appendix E	Yes	yes	yes
3745-1-05	C8a	shall	For each proposed activity, the director shall weigh the information acquired relative to the proposal, that was submitted by the applicant or otherwise obtained by the director, and all comments presented during the public review period, including intergovernmental comments,	6111.041, 6111.12	state/federal	40 CFR 131.12, 40 CFR Part 132, Appendix E	Yes	yes	yes
3745-1-05	C8b	shall	Any action of the director issuing a permit to install or a national pollutant discharge elimination system permit covered under paragraph (B)(1) or (F) of this rule shall be preceded by a draft action and shall be issued in accordance with Chapter 3745-49 of the Administrative Code.	6111.041, 6111.12	state/federal	40 CFR 131.12, 40 CFR Part 132, Appendix E, 40 CFR 124.6	Yes	yes	yes
3745-1-05	C8b	shall	Any action of the director issuing a permit to install or a national pollutant discharge elimination system permit covered under paragraph (B)(1) or (F) of this rule shall be preceded by a draft action and shall be issued in accordance with Chapter 3745-49 of the Administrative Code.	6111.041, 6111.12	state/federal	40 CFR 131.12, 40 CFR Part 132, Appendix E, 40 CFR 124.6	Yes	yes	yes
3745-1-05	C8c	shall	Any action of the director denying a permit to install or a national pollutant discharge elimination system permit covered under paragraph (B)(1) or (F) of this rule shall be preceded by a proposed action and shall be issued in accordance with Chapter 3745-49 of the Administrative Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	C8c	shall	Any action of the director denying a permit to install or a national pollutant discharge elimination system permit covered under paragraph (B)(1) or (F) of this rule shall be preceded by a proposed action and shall be issued in accordance with Chapter 3745-49 of the Administrative Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	C8d	shall	Any action of the director on a section 401 water quality certification covered under paragraph (B)(1) or (F) of this rule shall be taken in accordance with Chapters 3745-32 and 3745-49 of the Administrative Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	C8e	shall	Any action of the director on a state isolated wetland permit application submitted pursuant to section 6111.024 of the Revised Code and covered under paragraph (B)(1) or (F) of this rule shall be taken in accordance with Chapter 3745-49 of the Administrative Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	D1	shall	In determining the applicability of any of the following exclusions, the evaluation shall not only consider potential effects or impacts to the receiving waters, but also to any subsequent waters potentially affected by the discharge or activity.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	D1c	shall	Treatment byproducts of combined sewer overflow discharges (e.g., chlorine for disinfection) shall be excluded from review.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	D2b	shall	The director's determination on this matter shall be based upon the antidegradation review process specified in paragraph (C) of this rule, unless otherwise excluded from such review pursuant to paragraph (D) of this rule.	6111.041, 6111.12	general authority		Yes	no	yes

3745-1-05	D4	shall	Nothing in this rule shall prohibit the director from approving activities that lower water quality on a temporary basis whenever the director determines that an emergency exists requiring immediate action to protect public health and welfare.	6111.041, 6111.12	state	ORC 6111.06	Yes	yes	yes
3745-1-05	D4	shall	The director shall issue any such approval in accordance with division (C) of section 6111.06 of the Revised Code and rule 3745-47-19 of the Administrative Code.	6111.041, 6111.12	state	ORC 6111.06	Yes	yes	yes
3745-1-05	E1b	shall	All surface waters of the state meeting the definition of limited quality waters are so categorized, unless the water body is the source of drinking water for a public water supply, in which case it shall be considered a general high quality water for the purposes of this rule.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	E2	shall	At least once every three years, the director, in consultation with the director of the department of natural resources, shall consider available information on water bodies in Ohio and determine appropriate high quality water categorizations.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	E2	shall	Each determination shall consider attributes of exceptional recreational or ecological value, the national significance of the water body, and other existing and planned uses of the water body.	6111.041, 6111.12	federal	40 CFR 132, Appendix E	Yes	yes	yes
3745-1-05	E2	shall	If the director identifies any waters not properly categorized, the director shall public notice the director's intent to categorize them to the appropriate category upon consideration of public comment.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	E2	shall	The director shall categorize outstanding national resource waters, outstanding state waters and superior high quality waters in tables 5-4 to 5-7 of this rule.	6111.041, 6111.12	state/federal	40 CFR 131.12, 40 CFR 132, Appendix E	Yes	yes	yes
3745-1-05	E3	shall	A person adversely affected by the high quality water categorization of a water body pursuant to paragraph (E)(1) or (E)(2) of this rule may petition the director to revise that categorization. Any such petition shall detail the basis for the petition and contain, at a minimum, new relevant and factual information, or relevant and factual information not previously available to the director at the time of the categorization described in paragraph (E)(1) or (E)(2) of this rule.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	E3	shall	Within three months of receiving a petition containing complete and adequate information, or within such longer time as the director and the petitioner may agree, the director shall either approve or propose to deny the petition in accordance with Chapter 119. of the Revised Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	E3	shall	The director shall subsequently make appropriate revisions to the high quality water categorization of the water body in tables 5-4 to 5-7 of this rule, as appropriate, in accordance with Chapter 119. of the Revised Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	E4a	shall	Any such petition shall detail the basis for the petition and contain sufficient information, or such additional information as the director may request, to justify a decision by the director to either retain the set aside percentage, remove the set aside percentage or establish site specific set asides for one or more pollutants.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	E4b	shall	the director shall establish a revised, site- specific set aside for that or those pollutants.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	E4b	shall	The revised site-specific set aside for each pollutant shall be set at the percentage of the remaining available pollutants' assimilative capacity that the director concludes, based on the available scientific evidence, must be preserved to adequately protect the attributes that justified designation of the water body as an outstanding state water or superior high quality water.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	E4c	shall	the director shall either approve, approve with modifications or propose to deny the petition in accordance with Chapter 119. of the Revised Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	E4c	shall	The director shall subsequently make appropriate revision to the high quality water categorization of the water body in tables 5-4 to 5-7 of this rule, as appropriate, in accordance with Chapter 119. of the Revised Code.	6111.041, 6111.12	state	ORC 119.06, ORC 6111.06	Yes	yes	yes
3745-1-05	F	shall	The following special provisions are applicable to the discharge or release to the environment of any bioaccumulative chemical of concern in the lake Erie drainage basin. Unless otherwise noted, these requirements shall apply in addition to the provisions found in paragraphs (A) to (E) of this rule.	6111.041, 6111.12	federal	40 CFR 132, Appendix E	Yes	yes	no
3745-1-05	F1	shall	In lieu of the requirements of paragraph (B)(1) of this rule, any significant lowering of water quality as described in paragraph (F)(2) of this rule shall require the applicant to submit the information required by paragraph (B)(3) of this rule and to complete the demonstration required by paragraph (F)(3) of this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	F1	shall	The director shall establish conditions in the control document that meet the requirements of paragraph (F)(4) of this rule.	6111.041, 6111.12	federal	40 CFR 132, Appendix E	Yes	yes	yes
3745-1-05	F3	shall	The antidegradation demonstration shall include the following:	6111.041, 6111.12	federal	40 CFR 131.12	Yes	yes	no
3745-1-05	F4	shall	For limited quality waters and high quality waters, the director shall ensure that no action resulting in a lowering of water quality occurs unless an antidegradation demonstration has been completed pursuant to paragraphs (B)(3) and (F)(3) of this rule and the information thus provided is determined by the director pursuant paragraph (C) of this rule to adequately support the lowering of water quality.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	yes

3745-1-05	F4a	shall	The director shall establish conditions in the control document applicable to the regulated facility that prohibit the regulated facility from undertaking any deliberate action,	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	yes
3745-1-05	F4b	shall	For bioaccumulative chemicals of concern known or believed to be present in a discharge, from a point or nonpoint source, a monitoring requirement shall be included in the control document.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	F4b	shall	The control document shall also include a provision requiring the source to notify the director of any increased loadings that would be subject to the provisions of the paragraph (F)(2) of this rule and which have not received approval from the director under the conditions specified in this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	F4b	shall	Upon notification, the director shall require actions as necessary to reduce or eliminate the increased loading if the increase is subject to the provisions of the paragraph (F)(2) of this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	yes
3745-1-05	F4b	shall	Requirements to reduce or eliminate the increased loading imposed by the director pursuant to this paragraph shall apply unless or until the director approves the increased loadings under the provisions specified in this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	F4c	shall	Fact sheets prepared pursuant to 40 C.F.R. 124.8 and 124.56 shall reflect any conditions developed under paragraph (F) of this rule and included in a permit.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	A10c	must	To qualify on the basis of exceptional ecological values they must meet the qualifications for superior high quality waters and be further distinguished as being demonstratively among the best waters of the state from an ecological perspective.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	A10c	must	To qualify on the basis of exceptional recreational values they must provide outstanding or unique opportunities for recreational boating, fishing or other personal enjoyment.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B3	must	Except as provided in paragraphs (B)(2), (B)(4), (D) and (F) of this rule, the applicant covered by paragraph (B)(1) of this rule must submit documentation of the following:	6111.041, 6111.12	federal	40 CFR 131.12, 40 CFR 132, Appendix E	Yes	yes	no
3745-1-05	C7	must	In order for a credit project to be considered for approval, the proposal must:	6111.041, 6111.12	general		Yes	no	no
3745-1-05	C7b	must	A lower set aside must be established through rule making and incorporated into tables established in paragraph (E) of this rule.	6111.041, 6111.12	general authority		Yes	no	yes
3745-1-05	D5	must	The following conditions must be met for this waiver to apply:	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	E3	must	The petition must contain sufficient information, or such additional information as the director may request, to justify a decision by the director to either revise or retain the categorization under paragraph (E)(1) or (E)(2) of this rule.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	E4b	must	The revised site-specific set aside for each pollutant shall be set at the percentage of the remaining available pollutants' assimilative capacity that the director concludes, based on the available scientific evidence, must be preserved to adequately protect the attributes that justified designation of the water body as an outstanding state water or superior high quality water.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	F3	must	Any entity seeking to significantly lower water quality for a bioaccumulative chemical of concern, as defined in paragraph (F)(2) of this rule, in a limited quality water or high quality water must, in addition to the requirement in paragraph (B)(3) of this rule, submit an antidegradation demonstration for consideration by the director pursuant to the review requirements of this paragraph and paragraph (C) of this rule.	6111.041, 6111.12	federal	40 CFR 132, Appendix E	Yes	yes	no
3745-1-05	A11	require	The system shall be designed to allow a discharge during winter months and required land application of the wastewater during summer months.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B2i	require	A national pollutant discharge elimination system permit associated with a coal remining site where no individual section 401 water quality certification is required for the remining operation and where the director determines that the proposed discharge meets the criteria for modified effluent limits for a pollution abatement area as that term is defined under 40 C.F.R. 434.70.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	B4	require	Required submissions shall be determined in accordance with section 6111.30 of the Revised Code, Chapter 3745-32 of the Administrative Code and rules 3745-1-50 to 3745-1-54 of the Administrative Code.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C2	require	Required treatment technology, nonpoint source controls.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C2	require	More stringent treatment may be required pursuant to paragraph (C)(8) of this rule, or if needed to meet water quality standards.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C4d	require	For section 401 water quality certifications for outstanding national resource waters, demonstration of avoidance, minimization and mitigation of impacts shall serve as the applicant's non-degradation, minimal degradation and mitigative technique alternatives analysis as required in paragraph (B) of rule 3745-32-03 of the Administrative Code.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-05	C5	require	For section 401 water quality certifications for high quality waters, other than wetlands, demonstration of avoidance, minimization and mitigation of impacts shall serve as the applicant's non-degradation, minimal degradation and mitigative technique alternatives analysis as required in paragraph (B) of rule 3745-32-03 of the Administrative Code.	6111.041, 6111.12	general authority		Yes	no	no

3745-1-05	C5	require	The director may require the applicant to implement a non-degradation alternative, a minimal degradation alternative or a mitigative technique alternative to offset all or part of the proposed lowering of water quality, if the director determines that the alternative is technically feasible and economically justifiable.	6111.041, 6111.12	federal	40 CFR 131.12	Yes	yes	no
3745-1-05	C8aiii	require	Require a cost beneficial, technically feasible or available non-degradation, minimal degradation or mitigative technique alternative that would result in no or a lesser lowering of water quality.	6111.041, 6111.12	federal	40 CFR 131.12	Yes	yes	no
3745-1-05	F1	require	In lieu of the requirements of paragraph (B)(1) of this rule, any significant lowering of water quality as described in paragraph (F)(2) of this rule shall require the applicant to submit the information required by paragraph (B)(3) of this rule and to complete the demonstration required by paragraph (F)(3) of this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	
3745-1-05	F1	require	In lieu of the requirements of paragraph (B)(1) of this rule, any significant lowering of water quality as described in paragraph (F)(2) of this rule shall require the applicant to submit the information required by paragraph (B)(3) of this rule and to complete the demonstration required by paragraph (F)(3) of this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	
3745-1-05	F1	require	In lieu of the requirements of paragraph (B)(1) of this rule, any significant lowering of water quality as described in paragraph (F)(2) of this rule shall require the applicant to submit the information required by paragraph (B)(3) of this rule and to complete the demonstration required by paragraph (F)(3) of this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	
3745-1-05	F2ai	require	Construction of a new regulated facility or modification of an existing regulated facility such that a new or modified control document is required.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	F4b	require	Upon notification, the director shall require actions as necessary to reduce or eliminate the increased loading if the increase is subject to the provisions of the paragraph (F)(2) of this rule.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-05	C4c	may not	New sources may not discharge directly to outstanding national resource waters, and may not discharge at points located upstream from outstanding national resource waters unless it can be demonstrated by the applicant that the chemical and biological quality of the outstanding national resource water will not be adversely affected.	6111.041, 6111.12	federal	40 CFR 131.12	Yes	yes	no
3745-1-05	C4c	may not	New sources may not discharge directly to outstanding national resource waters, and may not discharge at points located upstream from outstanding national resource waters unless it can be demonstrated by the applicant that the chemical and biological quality of the outstanding national resource water will not be adversely affected.	6111.041, 6111.12	federal	40 CFR 131.12	Yes	yes	no
3745-1-05	C6d	may not	For general high quality waters and limited quality waters, water quality may not be lower than the applicable water quality criteria for the water body, unless authorized by a water quality standard variance issued in accordance with appropriate rules.	6111.041, 6111.12	federal	40 CFR 131.12, 40 CFR 131.14	Yes	yes	no
3745-1-05	C1	prohibit	The director shall, pursuant to paragraph (C) of rule 3745-1-07 of the Administrative Code, prohibit increased concentrations of specific regulated pollutants that are incompatible with the attainment or restoration of the designated use.	6111.041, 6111.12	state/federal	40 CFR 131.12	Yes	yes	yes
3745-1-05	D4	prohibit	Nothing in this rule shall prohibit the director from approving activities that lower water quality on a temporary basis whenever the director determines that an emergency exists requiring immediate action to protect public health and welfare.	6111.041, 6111.12	state	ORC 6111.06	Yes	yes	no
3745-1-05	F4a	prohibit	The director shall establish conditions in the control document applicable to the regulated facility that prohibit the regulated facility from undertaking any deliberate action, such that there would be an increase in the rate of mass loading of any bioaccumulative chemical of concern, unless an antidegradation demonstration is provided to the director and approved pursuant to paragraph (C) of this rule prior to commencement of the action.	6111.041, 6111.12	federal	40 CFR 132 Appendix E	Yes	yes	yes
3745-1-06	C	shall	For the purpose of establishing a mixing zone other than as specified in rule 3745-2-05 of the Administrative Code, a mixing demonstration, subject to review by Ohio EPA, shall be performed in accordance with this rule.	6111.041, 6111.12, 6111.03	General	40 CFR 131.13	Yes	yes	no
3745-1-06	E	shall	All mixing zone demonstrations shall fulfill the following:	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	E17	shall not	Conditions within the mixing zone shall not be injurious to human health, in the event of a temporary exposure during recreation, such that scalding or burns would result.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	F	shall	The mixing zone demonstration shall be submitted to Ohio EPA for review and comment. Following receipt of Ohio EPA's comments, the applicant shall resubmit the demonstration, if necessary, addressing Ohio EPA's comments.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	F	shall	The mixing zone demonstration shall be submitted to Ohio EPA for review and comment. Following receipt of Ohio EPA's comments, the applicant shall resubmit the demonstration, if necessary, addressing Ohio EPA's comments	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no

3745-1-06	G	shall	For sources discharging to lake Erie or other non-flowing waters, any adjustment to the dilution ratio shall be limited to the dilution available in the area where discharge-induced mixing occurs.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 132 Appendix F.3.	Yes	yes	no
3745-1-06	H	shall	The mixing zone demonstration shall be based on the assumption that a pollutant does not degrade within the proposed mixing zone, unless both of the following:	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I	shall	An AIM demonstration shall be preceded by the submittal of the following to Ohio EPA:	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I1	shall	The discharger shall complete a pollution prevention alternatives assessment and show that application of cost-effective pollution prevention practices, where practical and possible, will not preclude the need for an AIM	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I1	shall	Applicable pollution prevention practices shall be in place, or planned for implementation, before modification or installation of a discharge structure for an approved AIM.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I2	shall	The discharger shall show that improved treatment, where practical and possible, will not preclude the need for an AIM, or that the cost of such treatment would be economically detrimental to the discharger and its community.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I2	shall	The assessments shall include a cost/benefit analysis that represents the costs and benefits of the AIM to the environment, receiving water biota, and the citizens of Ohio as well as to the discharger and local residents.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I3	shall	The discharger shall explain how an AIM and discharge structure may impact the environment in and around the proposed site.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I3	shall	The discharger shall point out endangered species, important habitats and recreational uses of the area and any potential impact to them.	6111.041, 6111.12, 6111.03	General/ federal	40 CFR 131.13	Yes	yes	no
3745-1-06	I3	shall	The discharger shall also address the impact of the construction process on the environment.	6111.041, 6111.12, 6111.03	General/State/Federal	CWA Sections 401 and 404 may be applicable	Yes	yes	no
3745-1-06	I4	shall	The discharger shall submit proposed site and structure information for Ohio EPA's use in determining habitat-related restrictions.	6111.041, 6111.12, 6111.03	General/State/Federal	CWA Sections 401 and 404 may be applicable	Yes	yes	no
3745-1-06	K	shall	An AIM shall be limited to the space around the discharge structure according to the following restrictions:	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K1	shall not	An AIM shall not extend beyond both of the following radial distances from the discharge port:	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K2	shall	This site-specific information shall be used in conjunction with restrictions in paragraphs (K)(3) and (K)(4) of this rule to size the AIM.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K3	shall	An AIM shall be limited to the point where any discharge plume contacts the receiving water surface, bank, or bottom or contacts another discharge plume (mixture of effluent and receiving water) from the same discharge structure.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K3	shall	An AIM shall also be limited to the point where any discharge plume decreases in center-line velocity (velocity at the geometric center of the plume) to 0.5 meters per second or a minimum center-line velocity, determined through a scientifically defensible demonstration, above which native fish species and other aquatic life are unable or unlikely to inhabit.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K4	shall not	An AIM shall not contact or block access to important aquatic habitat areas including, but not limited to, tributaries, inlets, bays, wetlands, spawning grounds, and important feeding areas.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K5	shall not	General location and structural restrictions. The discharge structure producing the AIM shall not: be exposed above the water surface under stream design flow or historical low-level conditions except at the bank; significantly alter the natural currents and erosion and deposition patterns of the receiving water; or cause significant bottom scouring	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K6a	shall	The distance between the edge of the AIM and any other discharge or AIM in the receiving water shall equal or exceed five times the local stream width or one hundred meters, whichever is greater.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K6b	shall	The distance between the edge of an AIM and any intake of a drinking water source shall equal or exceed ten times the local stream width or two hundred meters, whichever is greater.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K6b	shall	The discharger shall demonstrate that the effluent plume will not impact an intake under any flow condition.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K7a	shall	The distance between the edge of the AIM and any other discharge or AIM in the receiving water shall equal or exceed two hundred meters.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K7b	shall	The distance between the edge of an AIM and any intake of a drinking water source shall equal or exceed five hundred meters.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K7b	shall	The discharger shall also demonstrate that the effluent plume will not impact the intake under any variation in current or lake level.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no

3745-1-06	K7d	shall	Structures sited close to shore or in shallow water shall be more strictly limited.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K8	shall not	Construction or modification of the discharge structure producing the AIM shall not	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K9a	shall	Both of the following waste flow velocities shall be maintained from each port of the discharge structure under all discharge and ambient conditions	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K9c	shall	The discharge structure shall be designed such that any discharge to the receiving water may completely cease if the waste flow is insufficient to maintain the required velocities.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	K9c	shall	It shall also be designed such that changes in waste flow can be accommodated quickly, without major changes to the structure and without bypassing the discharge structure.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	L	shall	For flowing streams, acute mixing zones and chronic mixing zones shall be sized on a case- by-case basis at the director's discretion using any appropriate restrictions listed in paragraphs (F), (H), (I) and (J) of this rule.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	M	shall	For lake Erie or non-flowing waters, acute mixing zones and chronic mixing zones shall be sized according to both of the following:	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	M1	shall	Acute mixing zones shall be sized on a case-by-case basis.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	M2	shall	Chronic mixing zones shall be sized on a case-by-case basis and at the director's discretion using any appropriate restrictions listed in paragraphs (F), (H), (I) and (J) of this rule.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	M2a	shall not	A mixing zone shall not extend to within one hundred meters of a drinking water intake unless the director accepts a scientifically defensible demonstration from the discharger indicating that the mixing zone can safely extend closer to the intake.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	M2b	shall	The maximum dilution available from the mixing zone to meet chronic criteria shall be fifty parts lake water to one part effluent or the dilution available within sixty meters, whichever is smaller, unless the director accepts a scientifically valid demonstration from the discharger indicating that an alternative dilution ratio is appropriate.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	M2c	shall not	The mixing zone shall not extend beyond the point where discharge induced mixing occurs.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	N	shall not	Mixing zones shall not be established by Ohio EPA for BCCs, beyond the dates established in rule 3745-2-05 of the Administrative Code, unless one of the following exceptions is met:	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	N2d	shall	Any mixing zone exceptions granted shall be reevaluated for each successive permit application in which a mixing zone for the BCCs is sought, shall ensure that the discharger has developed and conducted a pollutant minimization program for the BCCs, and that alternative means for reducing BCCs elsewhere in the watershed have been evaluated.	6111.041, 6111.12, 6111.03	Federal	40 CFR 132	Yes	yes	yes
3745-1-06	N2d	shall	Any mixing zone exceptions granted shall be reevaluated for each successive permit application in which a mixing zone for the BCCs is sought, shall ensure that the discharger has developed and conducted a pollutant minimization program for the BCCs, and that alternative means for reducing BCCs elsewhere in the watershed have been evaluated.	6111.041, 6111.12, 6111.03	Federal	40 CFR 132	Yes	yes	yes
3745-1-06	O1	shall	A thermal mixing zone, which allows dilution and cooling of a waste heat discharge, shall be considered a region in which organism response to temperature is time-dependent.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O1a	shall not	Exposure to temperatures in a thermal mixing zone shall not cause an irreversible response that results in deleterious effects to the wildlife and aquatic life representative of the receiving waters.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O1b	shall not	The daily average temperature in a thermal mixing zone at the point nearest to the discharge that is accessible to the resident aquatic organisms shall not exceed the temperatures in table 1 of this rule at the corresponding ambient temperature.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O1c	shall	At ambient temperatures of fifty-nine degrees Fahrenheit (fifteen degrees Celsius) and above, the daily average temperature in a thermal mixing zone shall be determined on a case-by-case basis.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	O2	shall	Thermal mixing zone size limitations shall be established by the director pursuant to paragraph (O)(1) of this rule in accordance with paragraph (E) of this rule for all point source discharges subject to permit.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	O3	shall	Any request for a thermal mixing zone in one of the following waters shall be preceded by an evaluation of treatment alternatives that would preclude the need for a mixing zone.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	yes
3745-1-06	O3	shall	This evaluation shall include a cost benefit analysis that presents the costs and benefits of the mixing zone to the environment, receiving water biota, and the citizens of Ohio, as well as to the discharger and local residents.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O3	shall not	The thermal mixing zone shall not cause an increase in pathogens that would contribute to an impairment of a designated use in any area of the water body outside the mixing zone; nor shall the thermal mixing zone cause nuisance growths, colors or odors from harmful, toxic, invasive or noxious organisms.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no

3745-1-06	O3	shall	The thermal mixing zone shall not cause an increase in pathogens that would contribute to an impairment of a designated use in any area of the water body outside the mixing zone; nor shall the thermal mixing zone cause nuisance growths, colors or odors from harmful, toxic, invasive or noxious organisms.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O4	must	Any thermal mixing zone request involving a new or expanded discharge must also evaluate other discharge alternatives as required by rule 3745-1-05 of the Administrative Code.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O4	require	Any thermal mixing zone request involving a new or expanded discharge must also evaluate other discharge alternatives as required by rule 3745-1-05 of the Administrative Code.	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O5a	require	Daily average temperatures of thermal mixing zones for all waters other than lake Erie at corresponding ambient temperatures as required in paragraph (O)(1) of this rule. Shown as degrees Fahrenheit and (Celsius).	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-06	O5b	require	Daily average temperatures of thermal mixing zones for lake Erie at corresponding ambient temperatures as required in paragraph (O)(1) of this rule. Shown as degrees Fahrenheit and (Celsius).	6111.041, 6111.12, 6111.03	General/federal	40 CFR 131.13	Yes	yes	no
3745-1-07	B1fi	shall	The director shall designate these waters in consultation with the director of the Ohio department of natural resources	6111.041	General		Yes	no	yes
3745-1-07	B1fii	shall	The director shall designate these waters based upon results of use attainability analyses.	6111.041	federal	40 CFR 131.10	Yes	yes	yes
3745-1-07	B1g	shall	For water bodies in the lake Erie drainage basin, the designation of water bodies as limited resource waters shall include demonstrations that the "Outside Mixing Zone Average" water quality criteria and values and chronic whole effluent toxicity levels are not necessary to protect the designated uses and aquatic life pursuant to rule 3745-1-39 of the Administrative Code.	6111.041	general authority		Yes	no	no
3745-1-07	C2	shall	The director shall evaluate the existing designated use and, where not attainable, propose to change the designated use.	6111.041	federal	40 CFR 131.10	Yes	yes	yes
3745-1-07	C2	shall	Where the designated use is attainable and the cause of the nonattainment has been established, the director shall, wherever necessary and appropriate, implement regulatory controls or make other recommendations regarding water resource management to restore the designated use.	6111.041	federal	40 CFR 130, 40 CFR 122.44(d)	Yes	yes	yes
3745-1-07	C2	shall not	Additional regulatory controls shall not be imposed on point sources that are meeting all applicable chemical specific and whole effluent criteria unless all of the following	6111.041	General		Yes	no	yes
3745-1-07	B1g	must	The use attainability analysis must demonstrate that the extant fauna is substantially degraded and that the potential for recovery of the fauna to the level characteristic of any other aquatic life habitat is realistically precluded due to natural background conditions or irretrievable human induced conditions.	6111.041	general authority		Yes	no	no
3745-1-07	B1gii	must	The potential for habitat improvements must be precluded due to regular stream channel maintenance required for drainage purposes.	6111.041	general authority		Yes	no	no
3745-1-07	B1gii	require	The potential for habitat improvements must be precluded due to regular stream channel maintenance required for drainage purposes.	6111.041	general authority		Yes	no	no
3745-1-07	B3	require	The director may require effluent disinfection, as a term or condition of a national pollutant discharge elimination system (NPDES) permit, administrative findings and orders or a judicial order, during the months outside the recreation season if necessary to protect an unusually high level of water based recreation activity such as, but not limited to	6111.041	general authority		Yes	no	no
3745-1-26	E	shall	The following uses, criteria and conditions shall apply to the Cuyahoga river ship channe	6111.041	general authority		Yes	no	no
3745-1-26	E1	shall	This seasonal and stream flow related use shall be recognized and protected through this rule.	6111.041	general authority		Yes	no	no
3745-1-26	E2ai	shall	During the months of June to January, and during the remaining months of the year whenever the river flow is less than seven hundred and three cubic feet per second at the United States geological survey gage at Independence (#04208000), the aquatic life use shall be limited resource water - navigation maintenance as defined in rule 3745-1-07 of the Administrative Code.	6111.041	general authority		Yes	no	no
3745-1-26	E2aii	shall	During the months of February to May whenever the river flow equals or exceeds seven hundred and three cubic feet per second at the United States geological survey gage at Independence (#04208000), the aquatic life use shall be fish passage	6111.041	general authority		Yes	no	no
3745-1-26	E3	shall	The criteria and other provisions to protect the designated uses of the ship channel shall be those set forth in rules 3745-1-01 to 3745-1-07 and 3745-1-35 of the Administrative Code with the following exceptions:	6111.041	general authority		Yes	no	no
3745-1-26	E3a	shall	The limited resource water dissolved oxygen criterion shall be 1.5 mg/l minimum. No dissolved oxygen average criteria apply.	6111.041	general authority		Yes	no	no
3745-1-26	E3b	shall	The fish passage criteria shall be the same as the warmwater habitat criteria in rule 3745-1-35 of the Administrative Code, with the exception that the biological criteria in rule 3745-1-07 of the Administrative Code do not apply	6111.041	general authority		Yes	no	no

3745-1-26	E4	shall	Pursuant to United States environmental protection agency regulations (40 C.F.R. Part 130.7), the director shall utilize the phased total maximum daily load approach as a means of progressing toward attainment of the dissolved oxygen criteria established in paragraph (E)(3) of this rule.	6111.041	federal	40 CFR 130.7	Yes	yes	yes
3745-1-26	E4	shall	Based on the background presented in paragraph (E)(1) of this rule and extensive data collection and analysis, the following total maximum daily load components shall be established for oxygen demanding substances:	6111.041	general authority		Yes	no	yes
3745-1-26	E4a	shall	The wasteloads for point sources shall be those presented in table 26-1 of this rule.	6111.041	general authority		Yes	no	no
3745-1-26	E4b	shall	The total maximum daily load shall include a component for expected dissolved oxygen enhancement through such means as, but not limited to, off channel re- aeration, sediment remediation and flow augmentation.	6111.041	general authority		Yes	no	yes
3745-1-26	E4c	shall	An evaluation of the site-specific technical and cost feasibility aspects of implementing off channel re- aeration shall be the first scheduled phase of the Cuyahoga river ship channel total maximum daily load. This evaluation shall be completed no later than two years after the adoption of this rule.	6111.041	general authority		Yes	no	yes
3745-1-26	E4c	shall	An evaluation of the site-specific technical and cost feasibility aspects of implementing off channel re- aeration shall be the first scheduled phase of the Cuyahoga river ship channel total maximum daily load. This evaluation shall be completed no later than two years after the adoption of this rule.	6111.041	general authority		Yes	no	yes
3745-1-26	E4d	shall	Implementation of off channel re-aeration or other dissolved oxygen enhancement measures, and any wasteload allocation for permit 3PA00002 for oxygen demanding substances, shall occur only after these components of the total maximum daily load are incorporated into this rule.	6111.041	general authority		Yes	no	yes
3745-1-26	E6	shall	These standards shall be reviewed, and revised if appropriate, every three years.	6111.041	federal	40 CFR 131.20	Yes	yes	yes
3745-1-26	E6	shall	Pursuant to Section 118 of the act (the "Great Lakes Critical Programs Act of 1990") the director shall continue to develop the Cuyahoga river remedial action plan - stage two report in conjunction with the Cuyahoga river remedial action plan coordinating committee.	6111.041	federal	33 USC 1268	Yes	yes	yes
3745-1-26	E6	shall	Studies undertaken as part of the remedial action plan and the feasibility study conducted pursuant to paragraph (E)(4)(c) of this rule shall be important components of the standards review process.	6111.041	general authority		Yes	no	no
3745-1-26	E4	must	In this instance the concept must consider the expectation of dissolved oxygen enhancement through means other than additional point and nonpoint source load reductions.	6111.041	general authority		Yes	no	no
3745-1-31	B1	shall	There shall be no water temperature changes as a result of human activity that cause mortality, long-term avoidance or exclusion from habitat, or adversely affect the reproductive success of representative aquatic species.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-31	B2	shall	At no time shall water temperature exceed the average or daily maximum temperatures indicated in paragraphs (A) and (B) of table 31-1 of this rule.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-31	B3	shall not	The temperature of the hypolimnetic waters of lake Erie shall not exceed at any time the daily maximum temperatures indicated in paragraph (C) of table 31- 1 of this rule.	6111.041, 6111.12	general authority		Yes	no	no
3745-1-32	A	shall not	For the months of May to October, the maximum allowable level of fecal coliform bacteria shall not exceed two hundred per one hundred ml as a monthly geometric mean based on not less than five samples per month	6111.041	general authority/ federal required		Yes	no	no
3745-1-32	A	shall not	Content shall not exceed one hundred thirty per one hundred ml as a monthly geometric mean, based on not less than five samples per month, nor exceed two hundred forty per one hundred ml in any sample	6111.041	general authority/ federal required		Yes	no	no
3745-1-32	A	shall not	For the months of November to April, the maximum allowable level of fecal coliform bacteria shall not exceed two thousand per one hundred ml as a geometric mean based on not less than five samples per month.	6111.041	general authority/ federal required		Yes	no	no
3745-1-32	A	shall	A minimum of 5.0 mg/l at any time shall be maintained during the April fifteen to June fifteen spawning season.	6111.041	general authority		Yes	no	no
3745-1-32	A	shall not	Gross total alpha particle activity (including radium-226, but excluding radon and uranium) shall not exceed fifteen picocuries per liter (pci/l) and combined radium-226 and radium-228 shall not exceed four pci/l.	6111.041	general authority		Yes	no	no
3745-1-32	A	shall not	Gross total alpha particle activity (including radium-226, but excluding radon and uranium) shall not exceed fifteen picocuries per liter (pci/l) and combined radium-226 and radium-228 shall not exceed four pci/l.	6111.041	general authority		Yes	no	no
3745-1-32	A	shall not	The concentration of total gross beta particle activity shall not exceed fifty pci/l.	6111.041	general authority		Yes	no	no
3745-1-32	A	shall not	The concentration of total strontium-90 shall not exceed eight pci/l.	6111.041	general authority		Yes	no	no
3745-1-33	A1	shall	The chemical specific criteria listed in table 33-1 of this rule, or site-specific modifications thereof, apply as "Outside Mixing Zone Averages" and shall apply to all water bodies located within five hundred yards of drinking water intakes.	6111.041	general authority		Yes	no	no

3745-1-33	A1	shall	For the purpose of setting water quality based effluent limits, these criteria shall be met after the effluent and the receiving water are reasonably well mixed as provided in rules 3745-1-06 and 3745-2-05 of the Administrative Code.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-33	A3	shall	The methodologies contained in rules 3745-1-41 and 3745-1-42 of the Administrative Code shall be used when adopting or revising numeric human health criteria and when implementing the narrative water quality criteria contained in rule 3745-1-04 of the Administrative Code.	6111.041	Federal required	40 CFR 132	Yes	yes	no
3745-1-33	B1	shall	For the purpose of setting water quality based effluent limits, the criteria shall be met after the effluent and the receiving water are reasonably well mixed as provided in rules 3745-1-06 and 3745-2-05 of the Administrative Code.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-33	B2	shall	The water quality criteria for the protection of agricultural uses, or site-specific modifications thereof, adopted in, or developed pursuant to, this rule shall apply outside the mixing zone to all water bodies assigned the agricultural water supply use designation.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-34	A	shall	The chemical specific criteria listed in table 34-1 of this rule, or site-specific modifications thereof, apply as "Outside Mixing Zone Averages" and shall apply to all water bodies.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-34	A	shall	For the purpose of setting water quality based effluent limits, these criteria shall be met after the effluent and the receiving water are reasonably well mixed as provided in rules 3745-1-06 and 3745-2-05 of the Administrative Code.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-34	C	shall	The methodologies contained in rules 3745-1-41 and 3745-1-42 of the Administrative Code shall be used when adopting or revising numeric human health criteria and when implementing the narrative water quality criteria contained in rule 3745-1-04 of the Administrative Code.	6111.041	federal required	40 CFR 132	Yes	yes	yes
3745-1-35	A	shall	For the purpose of setting water quality based effluent limits, the criteria which apply "Outside Mixing Zone" shall be met after the effluent and the receiving water are reasonably well mixed as provided in rules 3745-1-06 and 3745-2-05 of the Administrative Code.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-35	A	shall	The criteria listed as "Inside Mixing Zone Maximum" shall be applicable as end-of-pipe maximum effluent limits or as criteria to be met within a short distance of the effluent pipe except as provided in rule 3745-2-08 of the Administrative Code.	6111.041	federal requirement	CWA - Free froms.	Yes	yes	no
3745-1-35	B	shall	The water quality criteria adopted in, or developed pursuant to, this rule shall apply as follows:	6111.041	general authority		Yes	no	no
3745-1-35	B1	shall	The "Inside Mixing Zone Maximum" and "Outside Mixing Zone Maximum" water quality criteria for the protection of aquatic life, or site-specific modifications thereof, shall apply to all water bodies.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-35	B2	shall	The "Outside Mixing Zone Average" water quality criteria for the protection of aquatic life, or site-specific modifications thereof, shall apply to all water bodies except those water bodies assigned the limited resource water use designation.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-35	B3	shall	Criteria for protection of wildlife, or site-specific modifications thereof, are "Outside Mixing Zone Average" water quality criteria and shall apply to all water bodies located in the lake Erie drainage basin.	6111.041	federal requirement	40 CFR 132	Yes	yes	no
3745-1-35	D	shall	Whole-effluent toxicity levels shall be applied in accordance with rules 3745-1-44 and 3745-33-07 of the Administrative Code.	6111.041	general authority		Yes	no	no
3745-1-35	footnote	shall	At no time shall the water temperature exceed the temperature which would occur if there were no temperature change attributable to human activities.	6111.041	general authority		Yes	no	no
3745-1-35	footnote	shall not	In addition, any whole sample of any representative aquatic organisms shall not exceed 0.64 mg/kg (wet weight).	6111.041	general authority		Yes	no	no
3745-1-37	A	shall	For the purpose of setting water quality based effluent limits, the criteria which apply "Outside Mixing Zone" shall be met after the effluent and the receiving water are reasonably well mixed as provided in rules 3745-1-06 and 3745-2-05 of the Administrative Code.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-37	A	shall	The criteria listed as "Inside Mixing Zone Maximum" shall be applicable as end-of-pipe maximum effluent limits or as criteria to be met within a short distance of the effluent pipe except as provided in rule 3745-2-08 of the Administrative Code.	6111.041	federal requirement	40 CFR 131.11	Yes	yes	no
3745-1-37	B1	shall	The water quality criteria for the protection against adverse aesthetic conditions, or site-specific modifications thereof, shall apply as follows:	6111.041	general authority		Yes	no	no

3745-1-37	B1a	shall	The "Inside Mixing Zone Maximum" and "Outside Mixing Zone Maximum" water quality criteria, or site-specific modifications thereof, shall apply to all water bodies.	6111.041	general authority	40 CFR 131.13	Yes	no	no
3745-1-37	B1b	shall	The "Drinking" water quality criteria shall apply to all water bodies within five hundred yards of drinking water intakes.	6111.041	general authority		Yes	no	no
3745-1-37	footnote	shall	Surface waters shall be free from floating oils and shall at no time produce a visible sheen or color film.	6111.041	Federal	40 CFR 131.11	Yes	yes	no
3745-1-37	footnote	shall	Surface waters shall be free from floating oils and shall at no time produce a visible sheen or color film.	6111.041	Federal	40 CFR 131.11	Yes	yes	no
3745-1-37	footnote	shall	Total phosphorus as P shall be limited to the extent necessary to prevent nuisance growths of algae, weeds, and slimes that result in a violation of the water quality criteria set forth in paragraph (E) of rule 3745-1-04 of the Administrative Code or, for public water supplies, that result in taste or odor problems.	6111.041	general authority		Yes	no	no
3745-1-37	footnote	shall not	In areas where such nuisance growths exist, phosphorus discharges from point sources determined significant by the director shall not exceed a daily average of one milligram per liter as total P, or such stricter requirements as may be imposed by the director in accordance with the international joint commission (United States-Canada agreement).	6111.041	Federal treaty - US-Canada Agreement		Yes	yes	no
3745-1-37	C1	shall	The water quality criteria for the protection of recreational uses shall apply outside the mixing zone to all water bodies assigned a recreation use designation.	6111.041	general authority		Yes	no	no
3745-1-37	footnote	shall not	These criteria shall not be exceeded in more than ten per cent of the samples taken during any ninety-day period.	6111.041	general authority		Yes	no	no
3745-1-37	footnote	shall	A beach action value of 235 E. coli colony counts per 100 ml shall be used for the purpose of issuing beach and bathing water advisories	6111.041	general authority		Yes	no	no
3745-1-38	A	shall not	This rule shall not apply to any of the following:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	B	shall not	A WQS variance shall not exceed five years or the term of the NPDES permit, whichever is less, with the exception that a WQS variance may remain in effect beyond the term of the NPDES permit if, at least one hundred eighty days prior to the date of expiration of the NPDES permit, the applicant submits to the director an application for renewal of the NPDES permit, in accordance with Chapter 119. of the Revised Code and paragraph (C) of rule 3745-33-04 of the Administrative Code, and an application for renewal of the variance in accordance with paragraph (H) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	B	shall	Such a variance shall remain in effect until the director issues a final action on the NPDES permit renewal application unless the application for renewal of the variance is not substantially complete or not submitted within the time required in this paragraph, or unless the permittee did not substantially comply with the conditions of the existing variance.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	B	shall	The director shall review and modify as necessary WQS variances as part of each WQS review pursuant to section 303(c) of the act.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	C1f	shall	When evaluating substantial and widespread economic and social impact, the director shall consider, at a minimum, all of the following factors:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	C2	shall	In addition to the requirements of paragraph (C)(1) of this rule, the permittee shall do the following:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	D	shall	The permittee shall submit an application for a variance to Ohio EPA.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	D	shall	The variance application shall be considered a separate application from the NPDES permit application.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	D	shall	The variance application shall include the following:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	D4	shall	The plan of study shall include the following, at a minimum: data documenting the facility's current influent and effluent concentrations for the BCC; a preliminary identification of potential sources; a proposed schedule for evaluating those sources; and a proposed schedule for identifying and evaluating potential reduction, elimination, and prevention methods.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	E	shall	Upon receipt of a complete application for a variance (or in the case of a variance under paragraph (J) of this rule, the information required by paragraphs (J)(1) and (J)(2) of this rule), and upon making a preliminary decision regarding the variance, the director shall public notice the variance application, the availability of the public record, the availability of the plan of study (if applicable) and the preliminary decision for public comment.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	E	shall	For discharges in the lake Erie drainage basin, the other Great Lakes states and tribes shall be notified of the director's preliminary decision.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes

3745-1-38	F1	shall	The director shall issue a variance or propose to deny a variance in accordance with Chapter 119. of the Revised Code.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	F1	shall	If all or part of the variance is approved by the director, the decision shall include all permit conditions needed to implement those parts of the variance so approved.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	F1	shall	Such permit conditions shall, at a minimum, require all of the following:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	F1b	shall	If the variance was approved for a BCC in the lake Erie drainage basin or mercury statewide, the permittee shall develop and implement a pollutant minimization program (PMP) consistent with rule 3745-33-09 of the Administrative Code.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	F2	shall	The director shall deny a variance request in accordance with Chapter 119. of the Revised Code if the permittee fails to make the demonstrations required under paragraph (C) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	F2	shall not	Permit issuance shall not be affected if the variance is denied. If all, part, or parts of the variance is denied by the director, the decision may include, if necessary, an interim effluent limitation as specified under paragraph (F)(1)(a) of this rule and a compliance schedule to meet final limits, at a minimum.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	G	shall	The director shall establish and incorporate into the permittee's NPDES permit all conditions needed to implement the variance as determined under paragraph (F) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	H	shall	As part of any renewal application, the permittee shall again demonstrate that attaining WQS is not feasible based on the requirements of paragraph (C) of this rule, unless the variance being renewed was approved under paragraph (J) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	H	shall	For variances approved under paragraph (J) of this rule, the permittee shall, as a part of any renewal application, resubmit the information required under paragraphs (J)(1) and (J)(2) of this rule, the certification required by paragraph (J)(4)(e) of this rule and the permit, as well as a status report on the progress being made in the pollutant minimization program.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	H	shall	The permittee's application also shall contain information concerning its compliance with the conditions incorporated into its permit as part of the previous variance.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	H	shall	Reasonable progress shall have been made in implementing the pollutant minimization program under the existing permit prior to renewing variances approved under paragraph (I) or (J) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	I	shall	These determinations and specific application requirements shall be made by rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	I	shall	Dischargers applying for a variance based on multiple discharger determinations shall submit information demonstrating that the determinations of the director are applicable to the individual discharger.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J1c	shall	For the purpose of determining eligibility under paragraph (J) of this rule, the annual average mercury effluent concentration shall be the average of the most recent twelve months of effluent data.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J2	shall	In lieu of complying with the requirements of paragraph (D) of this rule, a discharger seeking a variance under paragraph (J) of this rule shall submit to the director an application containing the following information in writing:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J2c	shall	The plan of study shall include the following, at a minimum	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J3	shall	The director shall deny the applicability of paragraph (J)(1) of this rule to a discharger if the discharger fails to fulfill the requirements specified in paragraphs (J)(1) and (J)(2) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J4	shall	If the conditions of paragraphs (J)(1) and (J)(2) of this rule are met, the director shall issue the variance and incorporate the following requirements, at a minimum, into the discharger's NPDES permit:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J4b	shall	The requirements of paragraph (J)(6) of this rule shall be included in the permit	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J4e	shall	A requirement that upon completion of the actions identified in the plan of study and in the PMP required by paragraph (F)(1)(b) of this rule, the permittee shall submit to the director a certification that all permit conditions imposed to implement the plan of study and PMP have been satisfied and shall include in this certification a statement as to whether compliance with the WQBEL has been achieved and can be maintained.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J4e	shall	A requirement that upon completion of the actions identified in the plan of study and in the PMP required by paragraph (F)(1)(b) of this rule, the permittee shall submit to the director a certification that all permit conditions imposed to implement the plan of study and PMP have been satisfied and shall include in this certification a statement as to whether compliance with the WQBEL has been achieved and can be maintained.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J4e	shall	This certification shall be accompanied by the following:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no

3745-1-38	J5	shall	Upon receipt of the certification required by paragraph (J)(4)(e) of this rule, the director shall take either of the following actions:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J5a	shall	If the permittee certifies that it has achieved and can maintain compliance with the WQBEL, the director shall incorporate the WQBEL into the permit in lieu of the variance either via a permit modification if the permit has not yet expired or as a part of any renewal of the permit if it has expired.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J5b	shall	If the permittee certifies that it has not achieved or can not maintain compliance with the WQBEL, the director shall review the data submitted with the certification and such other relevant information as may be available, and:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J5bi	shall	If the director concurs with the certification, the director shall allow the variance to continue in force if the variance has not expired or renew the variance in accordance with paragraph (H) of this rule if the variance has expired.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J5bii	shall	If the director concludes, despite contrary certification by the permittee, that the permittee has achieved and can maintain compliance with the WQBEL, the director shall incorporate the WQBEL into the permit in lieu of the variance via a permit modification if the permit has not yet expired or as a part of any renewal of the permit if it has expired.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J6	shall	If at any time after the date specified in a variance by which the discharger must meet an average annual mercury effluent concentration of twelve ng/l, as defined in paragraph (J)(1) of this rule, or after the director's final approval of the variance renewal, whichever is earlier, the discharger's average mercury effluent concentration as defined in paragraph (J)(1) of this rule exceeds twelve ng/l, the discharger shall submit an individual variance application, if a variance is desired, or request a permit modification for a compliance schedule to attain compliance with the WQBEL.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J6	shall	Paragraph (J) of this rule shall no longer apply to the discharger on the date the director acts on the discharger's individual variance application or the date the permit modification becomes effective.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J6	shall not	The requirements of this paragraph shall not apply to the discharger if the discharger demonstrates to the satisfaction of the director that the mercury level in the discharger's effluent exceeds twelve ng/l due primarily to the presence of mercury in discharger's intake water.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	K	shall	All variances and supporting information shall be made available by the director to the U.S. EPA region V office after the date of the final variance decision.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	L	shall	WQS revisions. All variances shall be distributed with this chapter and shall be made available upon request to all interested parties.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	L	shall	WQS revisions. All variances shall be distributed with this chapter and shall be made available upon request to all interested parties.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	L	shall	The distributed information shall include at a minimum: the discharger receiving the variance; the term (beginning and ending dates) of the variance; the water body or water bodies affected by the variance; the pollutants affected by the variance; and the modified allowable ambient concentration values for those pollutants.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	A	must	All variance requests and approvals must comply with applicable portions of rule 3745-1-05 of the Administrative Code.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J4b	must	A requirement that the discharger's average mercury effluent concentration as defined in paragraph (J)(1) of this rule must remain less than or equal to twelve ng/l after the date specified in the discharger's accepted plan of study for the requirements under this paragraph to be applicable.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J6	must	If at any time after the date specified in a variance by which the discharger must meet an average annual mercury effluent concentration of twelve ng/l, as defined in paragraph (J)(1) of this rule	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	A	require	A variance does not affect, or require the director to modify, the corresponding water quality standard for the water body.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	A4	require	If WQS will be attained by implementing effluent limits required under sections 301(b) and 306 of the act as defined in rule 3745-33-01 of the Administrative Code and by the permittee implementing cost-effective and reasonable best management practices for nonpoint source control over which the permittee has control.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	B	require	Such a variance shall remain in effect until the director issues a final action on the NPDES permit renewal application unless the application for renewal of the variance is not substantially complete or not submitted within the time required in this paragraph, or unless the permittee did not substantially comply with the conditions of the existing variance.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	C1f	require	Controls more stringent than those required by sections 301(b) and 306 of the act would result in substantial and widespread economic and social impact.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no

3745-1-38	E	require	Public notice of preliminary decision. Upon receipt of a complete application for a variance (or in the case of a variance under paragraph (J) of this rule, the information required by paragraphs (J)(1) and (J)(2) of this rule), and upon making a preliminary decision regarding the variance, the director shall public notice the variance application, the availability of the public record, the availability of the plan of study (if applicable) and the preliminary decision for public comment.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	F1	require	Such permit conditions shall, at a minimum, require all of the following:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	F2	require	The director shall deny a variance request in accordance with Chapter 119. of the Revised Code if the permittee fails to make the demonstrations required under paragraph (C) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	H	require	For variances approved under paragraph (J) of this rule, the permittee shall, as a part of any renewal application, resubmit the information required under paragraphs (J)(1) and (J)(2) of this rule, the certification required by paragraph (J)(4)(e) of this rule and the permit, as well as a status report on the progress being made in the pollutant minimization program.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	H	require	For variances approved under paragraph (J) of this rule, the permittee shall, as a part of any renewal application, resubmit the information required under paragraphs (J)(1) and (J)(2) of this rule, the certification required by paragraph (J)(4)(e) of this rule and the permit, as well as a status report on the progress being made in the pollutant minimization program.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J	require	The director has determined that requiring removal of mercury by construction of end-of-pipe controls to attain mercury WQS, requiring controls more stringent than those required by sections 301(b) and 306 of the act would result in substantial and widespread social and economic impact.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J1b	require	That the permittee is not currently complying with the WQBEL and information available from the application required in paragraph (J)(2) of this rule indicates that there is no readily apparent means of complying with the WQBEL without constructing end-of-pipe controls more stringent than those required by sections 301 (b) and 306 of the act.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J1b	require	That the permittee is not currently complying with the WQBEL and information available from the application required in paragraph (J)(2) of this rule indicates that there is no readily apparent means of complying with the WQBEL without constructing end-of-pipe controls more stringent than those required by sections 301 (b) and 306 of the act.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-38	J4a	require	All conditions required under paragraph (F)(1) of this rule.	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	yes
3745-1-38	J5	require	shall take either of the following actions:	6111.03, 6111.031, 6111.041, 6111.13	General, Federal	40 CFR 131.14, 40 CFR 132 Appendix F	Yes	yes	no
3745-1-39	A	shall	Any such modifications shall be protective of designated uses and aquatic life, wildlife and human health and be submitted to the U.S. EPA for approval.	6111.041	federal	40 CFR 131.11	Yes	yes	no
3745-1-39	A	shall	Any site-specific modifications shall be based on a sound scientific rationale.	6111.041	federal	40 CFR 131.11	Yes	yes	no
3745-1-39	A	shall not	In addition, any site-specific modifications that result in less stringent criteria shall not be likely to jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of such species' critical habitat.	6111.041	general		Yes	no	no
3745-1-39	A	shall	More stringent modifications shall be developed to protect threatened or endangered species, where such modifications are necessary to ensure that water quality is not likely to jeopardize the continued existence of such species or result in the destruction or adverse modification of such species' critical habitat.	6111.041	general		Yes	no	no
3745-1-39	B4	shall	Documentation provided by the permittee or independently available to the director shall show that the modification, not to exceed 1.0 acute toxic unit, is protective of the resident aquatic community.	6111.041	general		Yes	no	yes
3745-1-39	D3	shall	Any more stringent modifications to protect threatened or endangered species required by paragraph (A) of this rule shall be derived using procedures set forth in the methodology contained in rule 3745-1-41 of the Administrative Code.	6111.041	general		Yes	no	yes
3745-1-39	E1	shall	Human health criteria or values shall be modified on a site-specific basis to provide additional protection appropriate for highly exposed subpopulations.	6111.041	general		Yes	no	yes
3745-1-39	E2a	shall not	Local fish consumption rates are lower than the rate used to derive human health criteria or values under rule 3745-1-42 of the Administrative Code (this option shall not be available for water bodies subject to a fish consumption advisory).	6111.041	general		Yes	no	no
3745-1-39	F	shall	When the director proposes a site-specific modification to a criterion or value as allowed or required in paragraph (A) of this rule, the director shall notify the other Great Lakes states of such a proposal and, for less stringent criteria, supply appropriate justification.	6111.041	federal	40 CFR 132 Appendix F	Yes	yes	yes
3745-1-39	C3	must	Any modification to protect threatened or endangered wildlife species required by paragraph (A) of this rule must consider both the mobility of prey organisms and wildlife populations in defining the site for which criteria are developed, and may be accomplished by using the following recommended method:	6111.041	federal	40 CFR 132 Appendix F	Yes	yes	yes

3745-1-39	B5	require	Any modifications to protect threatened or endangered aquatic species required by paragraph (A) of this rule may be accomplished using either of the two following procedures:	6111.041	federal	40 CFR 132 Appendix F	Yes	yes	no
3745-1-39	C3	require	Any modification to protect threatened or endangered wildlife species required by paragraph (A) of this rule must consider both the mobility of prey organisms and wildlife populations in defining the site for which criteria are developed, and may be accomplished by using the following recommended method:	6111.041	federal	40 CFR 132 Appendix F	Yes	yes	no
3745-1-39	D3	require	Any more stringent modifications to protect threatened or endangered species required by paragraph (A) of this rule shall be derived using procedures set forth in the methodology contained in rule 3745-1-41 of the Administrative Code.	6111.041	federal	Endangered Species Act (16 U.S.C. §1532(5)(A))	Yes	yes	no
3745-1-39	F	require	When the director proposes a site-specific modification to a criterion or value as allowed or required in paragraph (A) of this rule, the director shall notify the other Great Lakes states of such a proposal and, for less stringent criteria, supply appropriate justification.	6111.041	federal	40 CFR 132 Appendix E	Yes	yes	no
3745-1-40	intro	shall not	All pollutants or combinations of pollutants, for which aquatic life criteria have not been adopted in rule 3745-1-35 of the Administrative Code, shall not exceed the water quality criteria or values derived using the procedures contained in this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A	shall	This criterion and value shall be expressed as the quantity of chemical per liter of water (e.g., mg/l or ug/l).	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A	shall	Paragraphs (A)(1) to (A)(3) of this rule shall be used to calculate the tier I AAC when acute toxicity data are available for species in at least eight families.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A	shall	Paragraph (A)(4) of this rule shall be used to calculate the tier II AAV when there are not enough toxicity data to use the procedures in paragraphs (A)(1) to (A)(3) of this rule but there is at least one EC50 or LC50 value for a species in one of the following three genera of the family Daphniidae: Ceriodaphnia sp., Daphnia sp., or Simocephalus sp.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A1	shall	The procedures in paragraphs (A)(1) to (A)(3) of this rule shall be used to calculate the tier I AAC when LC50 or EC50 data are available for at least one species of freshwater animal in at least the eight different families identified as follows:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2	shall	When data are not available to show that acute toxicity to two or more species is similarly related to a water quality characteristic (e.g., hardness, pH or temperature), the tier I AAC shall be calculated using the procedures in paragraphs (A)(2)(a) to (A)(2)(i) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2a	shall	For each species for which at least one acute value is available, the species mean acute value (SMAV) shall be calculated as the geometric mean of the results of all acceptable flow-through acute toxicity tests in which the concentrations of test material were measured with the most sensitive tested life stage of the species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2a	shall	For a species for which no such result is available, the SMAV shall be calculated as the geometric mean of all acceptable acute toxicity tests with the most sensitive tested life stage, i.e., results of flow-through tests in which the concentrations were not measured and results of static and renewal tests based on initial concentrations (nominal concentrations are acceptable for most test materials if measured concentrations are not available) of test material.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2b	shall	For each genus for which one or more SMAVs are available, the genus mean acute value (GMAV) shall be calculated as the geometric mean of the SMAVs available for the genus.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2c	shall	The GMAVs shall be ordered from high to low.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2d	shall	Ranks (R) shall be assigned to the GMAVs from "one" for the lowest to "N" for the highest.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2e	shall	The cumulative probability (P), shall be calculated for each GMAV as $R / (N + 1)$.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2f	shall	The four GMAVs shall be selected which have cumulative probabilities closest to 0.05.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2g	shall	Using the four selected GMAVs and Ps, the final acute value (FAV) shall be calculated as follows:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2h	shall	If, for a commercially, recreationally or ecologically important species, the geometric mean of the acute values from flow-through tests in which the concentrations of test material were measured is lower than the calculated FAV, then that geometric mean shall be used as the FAV instead of the calculated FAV.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A2i	shall	The AAC shall be calculated by dividing the FAV by two.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3	shall	When enough data are available to show that acute toxicity to two or more species is similarly related to a water quality characteristic (e.g., hardness, pH or temperature), the tier I FAV shall be calculated using the procedures in paragraphs (A)(3)(a) to (A)(3)(l) of this rule or using an analysis of covariance.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes

3745-1-40	A3	shall	If two or more factors affect toxicity, multiple regression analysis shall be used.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3a	shall	For each species for which comparable acute toxicity values are available at two or more different values of the water quality characteristic, a least squares regression of the acute toxicity values on the corresponding values of the water quality characteristic shall be performed to obtain the slope and its ninety-five per cent confidence limits for each species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3a	shall	For relationships based on other water quality characteristics, such as pH or temperature, no transformation or a different transformation might fit the data better, and appropriate changes shall be made as necessary throughout this method.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3b	shall	Data for each species shall be evaluated as to whether or not they are relevant, taking into account the range and number of the tested values of the water quality characteristic and the degree of agreement within and between species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3b	shall	If useful slopes are not available for at least one fish and one invertebrate, or if the available slopes are too dissimilar, or if too few data are available to adequately define the relationship between acute toxicity and the water quality characteristic, the AAC shall be calculated using the procedures in paragraph (A)(2) of this rule, using the results of tests conducted under conditions and in waters similar to those commonly used for toxicity tests with the species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3c	shall	For each species, the geometric mean of the available acute values shall be calculated and then each of the acute values for a species shall be divided by the mean for the species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3c	shall	For each species, the geometric mean of the available acute values shall be calculated and then each of the acute values for a species shall be divided by the mean for the species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3d	shall	The values of the water quality characteristic shall be similarly normalized for each species individually using the procedure in paragraph (A)(3)(c) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3e	shall	Individually for each species a least squares regression of the normalized acute values on the water quality characteristic shall be performed.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3f	shall	All the normalized data shall be treated as if they were for the same species and a least squares regression of all the normalized acute values on the corresponding normalized values of the water quality characteristic is performed to obtain the pooled acute slope, V, and its ninety-five per cent confidence limits.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3g	shall	For each species the geometric mean, W, of the acute toxicity values and the geometric mean, X, of the values of the water quality characteristic shall be calculated.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3h	shall	For each species the natural logarithm (ln), Y, of the SMAV at a selected value, Z, of the water quality characteristic shall be calculated using the equation:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3i	shall	For each species the SMAV at Z shall be calculated using the equation:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3j	shall	The FAV shall be obtained by using the procedures described in paragraphs (A)(2)(b) to (A)(2)(g) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3k	shall	If, for a commercially or recreationally important species the geometric mean of the acute values at Z from flow-through tests in which the concentrations of the test material were measured is lower than the FAV at Z, then the geometric mean shall be used as the FAV instead of the FAV.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3l	shall	The final acute equation shall be written as:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A3m	shall	For any value of Z, the AAC shall be calculated by dividing the FAV by two.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A4a	shall	If the required data to derive the tier I AAC in paragraphs (A)(1) to (A)(3) of this rule are not present in the acute toxicity data base and at least one EC50 or LC50 value is available for a species in one of the following three genera of the family Daphnidae - Ceriodaphnia sp., Daphnia sp., or Simocephalus sp., a tier II secondary acute value (SAV) shall be calculated by dividing the lowest GMAV in the data base by the secondary acute factor (SAF) (see table 40-1 of this rule) corresponding to the number of satisfied minimum data requirements listed in the tier I methodology (see paragraph (A)(1) of this rule).	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A4c	shall	If appropriate, the AAV shall be made a function of a water quality characteristic in a manner similar to that described in paragraph (A)(3) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B	shall	This criterion and value shall be expressed as the quantity of chemical per liter of water (e.g., mg/l or ug/l). Paragraphs (B)(1) and (B)(2) of this rule are used to calculate the tier I CAC.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B	shall	Paragraphs (B)(3) and (B)(4) of this rule shall be used to calculate the tier II CAV when there are not enough toxicity data to use the method in paragraphs (B)(1) and (B)(2) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes

3745-1-40	B1	shall	If chronic values are available for species in eight families as described in paragraph (A)(1) of this rule, a species mean chronic value (SMCV) shall be calculated for each species for which at least one chronic value is available by calculating the geometric mean of the results of all acceptable life-cycle and partial life-cycle toxicity tests with the species	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B1	shall	for a species of fish for which no such result is available, the SMCV shall be the geometric mean of all acceptable early life-stage tests.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B1	shall	Appropriate genus mean chronic values (GMCVs) shall also be calculated.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B1	shall	A GMCV shall be the geometric mean of the SMCVs for the genus.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B1	shall	The CAC shall be obtained using the procedure contained in paragraphs (A)(1) to (A)(3) of this rule, substituting CAC for FAV, SMCV for SMAV and GMCV for GMAV.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2	shall	If chronic data for a chemical are not available for at least eight freshwater species meeting the requirements in paragraph (A)(1) of this rule, the CAC shall be calculated by dividing the FAV by a final acute-chronic ratio (FACR).	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2b	shall	For each chronic value for which at least one corresponding appropriate acute value is available, an ACR shall be calculated using the chronic value for the denominator and using the geometric mean of the results of all acceptable flow- through (except static is acceptable for daphnids and midges) acute tests in the same dilution water in which the concentrations are measured for the numerator.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2b	shall	For fish, the acute test shall be conducted with juveniles.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2b	shall not	If no such acute tests are available, an ACR shall not be calculated.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2c	shall	For each species, the species mean ACR shall be calculated as the geometric mean of all ACRs available for that species.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2d	shall	Thus the FACR shall be obtained in the following ways:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2di	shall	If the species mean ACR seems to increase or decrease as the SMAVs increase, the FACR shall be calculated as the geometric mean of the ACRs for species whose SMAVs are close to the FAV.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2dii	shall	If no major trend is apparent and the ACRs for all species are within a factor of ten, the FACR shall be calculated as the geometric mean of all of the species mean ACRs.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2diii	shall	If the most appropriate species mean ACRs are less than 2.0, the FACR shall be assumed to be 2.0.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2e	shall	The FCV shall be calculated by dividing the FAV by the FACR.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2f	shall	If the SMCV of a commercially or recreationally important species is lower than the calculated CAC, then that SMCV shall be used as the CAC instead of the calculated CAC.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B3	shall	If fewer than three acceptable experimentally determined ACRs are available for the chemical, the secondary acute-chronic ratio (SACR) shall be determined using enough assumed ACRs of eighteen so that the total number of ACRs equals three.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B3	shall	If no experimentally determined ACRs are available, the SACR shall be eighteen.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B4a	shall	The CAV shall be calculated using one of the following equations:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B4b	shall	If appropriate, the CAV shall be made a function of a water quality characteristic in a manner similar to that described in paragraph (A)(3) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B4c	shall	If the SMCV of a commercially or recreationally important species is lower than the calculated CAV, then that SMCV shall be used as the CAV instead of the calculated CAV.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	C	shall	If plants are among the aquatic organisms most sensitive to the material, results of a test with a plant in another phylum (division) shall also be available.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	C1	shall	A plant value shall be the result of a ninety-six-hour test conducted with an alga or a chronic test conducted with an aquatic vascular plant.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	C1	shall not	A test of the toxicity of a metal to a plant shall not be used if the medium contained an excessive amount of a complexing agent, such as EDTA, that might affect the toxicity of the metal.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	C1	shall	Concentrations of EDTA above two hundred micrograms per liter shall be considered excessive.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	C2	shall	The FPV shall be obtained by selecting the lowest result from a test with an important aquatic plant species in which the concentrations of test material are measured and the endpoint is biologically important.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes

3745-1-40	D1	shall	The FAV and SAV shall be applied as maximum concentrations inside the mixing zone.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	D2	shall	The AAC and AAV shall be applied as maximum concentrations outside the mixing zone.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	D3	shall	The CAC, CAV, and FPV if available shall be applied as thirty-day average concentrations outside the mixing zone.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	A4a	require	If the required data to derive the tier I AAC in paragraphs (A)(1) to (A)(3) of this rule are not present in the acute toxicity data base and at least one EC50 or LC50 value is available for a species in one of the following three genera of the family Daphnidae - Ceriodaphnia sp., Daphnia sp., or Simocephalus sp., a tier II secondary acute value (SAV) shall be calculated by dividing the lowest GMAV in the data base by the secondary acute factor (SAF) (see table 40-1 of this rule) corresponding to the number of satisfied minimum data requirements listed in the tier I methodology (see paragraph (A)(1) of this rule).	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	B2a	require	Acute-chronic ratio (ACRs) are required for at least one species of aquatic animal in at least three different families provided that of the three species conform to the following:	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-40	C	require	Results of at least one acceptable test with a freshwater algae or vascular plant is required.	6111.041	Federal/General	40 CFR 132 Appendix A	Yes	Yes, federal GLCPA	yes
3745-1-41	B1	shall	Field-measured BAFs. The following procedural and quality assurance requirements shall be met for field-measured BAFs.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1a	shall	The field studies used shall be limited to those conducted in the Great Lakes system with fish in trophic levels three or four.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1b	shall	The trophic level of the fish species shall be determined.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1c	shall not	The site of the field study shall not be so unique such that the BAF cannot be extrapolated to other locations where the criteria and values will apply.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1d	shall	For organic chemicals, the per cent lipid shall be either measured or reliably estimated for the tissue used in the determination of the BAF.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1e	shall	The concentration of the chemical in the water shall be measured in a way that can be related to particulate organic carbon (POC) or dissolved organic carbon (DOC) and shall be relatively constant during the steady-state time period.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1e	shall	The concentration of the chemical in the water shall be measured in a way that can be related to particulate organic carbon (POC) or dissolved organic carbon (DOC) and shall be relatively constant during the steady-state time period.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1f	shall	For organic chemicals with log Kow greater than four, the concentrations of POC and DOC in the ambient water shall be either measured or reliably estimated.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B1g	shall	For inorganic and organic chemicals, BAFs shall be used only if they are expressed on a wet weight basis; BAFs reported on a dry weight basis cannot be converted to wet weight unless a conversion factor is measured or reliably estimated for the tissue used in the determination of the BAF.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2	shall	Field-measured biota-sediment accumulation factors (BSAFs). The following procedural and quality assurance requirements shall be met for field-measured BSAFs.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2a	shall	The field studies used shall be limited to those conducted in the Great Lakes system with fish in trophic levels three or four.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2b	shall	Samples of surface sediments shall be from locations where there is net deposition of fine sediment (zero to one centimeter is ideal) and that are representative of average surface sediments in the vicinity of the organism.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2c	shall	The Kows used shall be of acceptable quality as described in paragraph (B)(5) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2d	shall not	The site of the field study shall not be so unique such that the resulting BAF cannot be extrapolated to other locations where the criteria and values will apply.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2e	shall	The trophic level of the fish species shall be determined.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B2f	shall	The per cent lipid shall be either measured or reliably estimated for the tissue used in the determination of the BAF.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3	shall	Laboratory-measured BCFs. The following procedural and quality assurance requirements shall be met for laboratory-measured BCFs.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3a	shall not	The test organism shall not be diseased, unhealthy, or adversely affected by the concentration of the chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3b	shall	The total concentration of the chemical in the water shall be measured and shall be relatively constant during the steady-state time period.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes

3745-1-41	B3b	shall	The total concentration of the chemical in the water shall be measured and shall be relatively constant during the steady-state time period.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3c	shall	The organisms shall be exposed to the chemical using a flow-through or renewal procedure.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3d	shall	For organic chemicals, the per cent lipid shall be either measured or reliably estimated for the tissue used in the determination of the BCF.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3e	shall	For organic chemicals with log Kow greater than four, the concentrations of POC and DOC in the test solution shall be either measured or reliably estimated.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3g	shall	In a bioconcentration test, if laboratory-measured BCFs increase or decrease as the concentration of the chemical increase in the test solutions, the BCF measured at the lowest test concentration that is above concentrations existing in the control water shall be used (i.e., a BCF shall not be calculated from a control treatment).	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3g	shall not	In a bioconcentration test, if laboratory-measured BCFs increase or decrease as the concentration of the chemical increase in the test solutions, the BCF measured at the lowest test concentration that is above concentrations existing in the control water shall be used (i.e., a BCF shall not be calculated from a control treatment).	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3g	shall	The concentrations of an inorganic chemical in a bioconcentration test shall be greater than normal background levels and greater than levels required for normal nutrition of the test species if the chemical is a micronutrient, but below levels that adversely affect the species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3h	shall	For inorganic and organic chemicals, BCFs shall be used only if they are expressed on a wet weight basis	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3j	shall	The calculation of the BCF shall address growth dilution.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3k	shall	Other aspects of the methodology used shall be similar to those described in "Standard Guide for Conducting Bioconcentration Tests with Fishes and Saltwater Bivalve Molluscs. Standard E1022."	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B4	shall	The following procedural and quality assurance requirements shall be met for predicted BCFs.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B4a	shall	The Kow used shall be of acceptable quality as described in paragraph (B)(5) of this rule.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B4b	shall	The predicted baseline BCF shall be calculated using the equation	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B5a	shall	The value of Kow used for an organic chemical shall be determined by giving priority to the experimental and computational techniques used as shown in table 41-1 of this rule.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B5b	shall	The value of Kow used for an organic chemical shall be either the geometric mean of the available Kows with highest priority or the arithmetic mean of the available log Kows with the highest priority.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B5b	shall not	Because it is an intermediate value in the derivation of a BAF, the values used for the Kow and log Kow of a chemical shall not be rounded to fewer than three significant digits after the decimal point.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	C	shall	Baseline BAFs shall be derived using the following four methods, which are listed from most preferred to least preferred.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	C4	shall	For comparative purposes, baseline BAFs shall be derived for each chemical by as many of the four methods as available data allow.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D2	shall	For the purposes of this rule, the relationship between the total concentration of the chemical in the ambient water (i.e., that which is freely dissolved plus that which is sorbed to particulate organic carbon or to dissolved organic carbon) to the freely dissolved concentration of the chemical in the ambient water shall be calculated using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D2	shall	The fraction of the total chemical in the ambient water that is freely dissolved (ffd), shall be calculated using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D3	shall	In the absence of a field-measured BAF or a predicted BAF derived from a BSAF, an FCM shall be used to calculate the baseline BAF for trophic levels three and four from a laboratory-measured or predicted BCF.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D3	shall	For an organic chemical, the FCM used shall be derived from table 41-2 of this rule using the chemical's log Kow and linear interpolation.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D3	shall	The trophic level used shall take into account the age or size of the fish species consumed by the human, avian or mammalian predator.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D4	shall	A baseline BAF shall be calculated from a field-measured BAF using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D4	shall	For each trophic level, a species mean measured baseline BAF shall be calculated as the geometric mean if more than one measured baseline BAF is available for a given species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes

3745-1-41	D4	shall	For each trophic level, the geometric mean of the species mean measured baseline BAFs shall be calculated.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D4	shall	If a baseline BAF based on a measured BAF is available for either trophic level three or four, but not both, a measured baseline BAF for the other trophic level shall be calculated using the ratio of the FCMs that are obtained by linear interpolation from table 41-2 of this rule for the chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5a	shall	A baseline BAF for organic chemical "I" shall be calculated from a field-measured BSAF of acceptable quality using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5b	shall	A BSAF shall be calculated using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5c	shall	The organic carbon-normalized concentration of a chemical in sediment (C _{oc}), shall be calculated using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5e	shall	For each trophic level, a species mean baseline BAF shall be calculated as the geometric mean if more than one baseline BAF is predicted from BSAFs for a given species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5e	shall	For each trophic level, the geometric mean of the species mean baseline BAFs derived using BSAFs shall be calculated.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5f	shall	If a baseline BAF based on a measured BSAF is available for either trophic level three or four, but not both, a baseline BAF for the other trophic level shall be calculated using the ratio of the FCMs that are obtained by linear interpolation from table 41-2 of this rule for the chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D6	shall	Calculation of a baseline BAF from a laboratory-measured BCF. A baseline BAF for trophic level three and a baseline BAF for trophic level four shall be calculated from a laboratory-measured BCF of acceptable quality and an FCM using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D6	shall	For each trophic level, a species mean baseline BAF shall be calculated as the geometric mean if more than one baseline BAF is predicted from laboratory-measured BCFs for a given species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D6	shall	For each trophic level, the geometric mean of the species mean baseline BAFs based on laboratory-measured BCFs shall be calculated.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D7	shall	A baseline BAF for trophic level three and a baseline BAF for trophic level four shall be calculated from a Kow of acceptable quality and an FCM using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	E1	shall	A baseline BAF for trophic level three and a baseline BAF for trophic level four shall be calculated from a Kow of acceptable quality and an FCM using the following equation:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	E2	shall	The human health BAFs for an organic chemical shall be calculated using the equations.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	E3	shall	The wildlife BAFs for an organic chemical shall be calculated using the following equations:	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F2a	shall	Measured BAFs and BCFs used to determine human health BAFs for inorganic chemicals shall be based on edible tissue of freshwater fish unless it is demonstrated that whole-body BAFs or BCFs are similar to edible-tissue BAFs or BCFs.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F2bi	shall	A species mean measured baseline BAF shall be calculated as the geometric mean if more than one measured BAF is available for a given species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F2bii	shall	The geometric mean of the species mean measured baseline BAFs shall be used as the human health BAF for that chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F2c	shall	If an acceptable measured baseline BAF is not available for an inorganic chemical and one or more acceptable edible-portion laboratory-measured BCFs are available for the chemical, a predicted baseline BAF shall be calculated by multiplying the geometric mean of the BCFs times an FCM	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F2c	shall	The FCM shall be 1.0 unless chemical-specific biomagnification data support using a multiplier other than 1.0.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F2c	shall	The predicted baseline BAF shall be used as the human health BAF for that chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F3a	shall	Measured BAFs and BCFs used to determine wildlife BAFs for inorganic chemicals shall be based on whole-body freshwater fish and invertebrate data unless it is demonstrated that edible-tissue BAFs or BCFs are similar to whole-body BAFs or BCFs.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F3bi	shall	For each trophic level, a species mean measured baseline BAF shall be calculated as the geometric mean if more than one measured BAF is available for a given species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F3bii	shall	For each trophic level, the geometric mean of the species mean measured baseline BAFs shall be used as the wildlife BAF for that chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F3biii	shall	If an acceptable measured baseline BAF is not available for an inorganic chemical and one or more acceptable whole-body laboratory-measured BCFs are available for the chemical, a predicted baseline BAF shall be calculated by multiplying the geometric mean of the BCFs times an FCM.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes

3745-1-41	F3biii	shall	The FCM shall be 1.0 unless chemical-specific biomagnification data support using a multiplier other than 1.0.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	F3biii	shall	The predicted baseline BAF shall be used as the wildlife BAF for that chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	G	shall	For both organic and inorganic chemicals, human health and wildlife BAFs for both trophic levels shall be reviewed for consistency with all available data concerning the bioaccumulation, bioconcentration, and metabolism of the chemical.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	G	shall	BAFs derived in accordance with this methodology shall be modified if changes are justified by available data.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D1b	must	Because BAFs and BCFs for organic chemicals are related to the per cent lipid, it does not make any difference whether the tissue sample is whole body or edible portion, but both the BAF (or BCF) and the per cent lipid must be determined for the same type of tissue	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	B3g	require	The concentrations of an inorganic chemical in a bioconcentration test shall be greater than normal background levels and greater than levels required for normal nutrition of the test species if the chemical is a micronutrient, but below levels that adversely affect the species.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-41	D5d	require	Predicting BAFs from BSAFs requires data from a steady-state (or near steady-state) condition between sediment and ambient water for both a reference chemical "r" with a field-measured BAF _{fdl} and other chemicals "N=i" for which BSAFs are to be determined.	6111.041	Federal/General	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	intro	shall not	All pollutants or combinations of pollutants, for which human health criteria have not been adopted in rule 3745- 1-33 or 3745-1-34 of the Administrative Code, shall not exceed the water quality criteria or values derived using the procedures contained in this rule.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	A2	shall	The criteria and values developed shall provide a level of protection likely to be without appreciable risk of carcinogenic or noncarcinogenic effects.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	A2	shall not	Ambient criteria and values for single carcinogens shall not be set at a level representing a lifetime upper-bound incremental risk greater than one in one hundred thousand of developing cancer using the hazard assessment techniques and exposure assumptions described in this rule.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	A2	shall	Criteria and values affording protection from noncarcinogenic effects shall be established at levels that, taking into account uncertainties, are considered likely to be without an appreciable risk of adverse human health effects (i.e., acute, subchronic and chronic toxicity including reproductive and developmental effects) during a lifetime of exposure, using the risk assessment techniques and exposure assumptions described in this rule.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	A3	shall	Chemical concentration levels in surface water protective of human health shall be derived based on either a tier I or tier II classification.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B	shall	The best available toxicity data on the adverse health effects of a chemical and the best data on bioaccumulation factors shall be used when developing human health tier I criteria or tier II values.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B	shall	The best available toxicity data shall include data from well-conducted epidemiologic or animal studies which provide, in the case of carcinogens, an adequate weight of evidence of potential human carcinogenicity and, in the case of noncarcinogens, a dose-response relationship involving critical effects biologically relevant to humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B	shall	Such information shall be obtained from the U.S. EPA integrated risk information system (IRIS) database, scientific literature, and other informational databases, studies and reports containing adverse health effects data of adequate quality for use in this rule, when available.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B	shall	Strong consideration shall be given to the most currently available guidance provided by IRIS in deriving criteria or values, supplemented with any recent data not incorporated into IRIS.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B	shall	The best available bioaccumulation data shall include data from field studies and well-conducted laboratory studies.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1a	shall	Tier I human cancer criteria (HCC) and tier II human cancer values (HCV) shall be derived using the methodologies described in paragraph (C)(1) of this rule when there is adequate evidence of potential human carcinogenic effects for a chemical.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1a	shall	The U.S. EPA classification system for chemical carcinogens, which is described in "Guidelines for Carcinogen Risk Assessment, Risk Assessment Forum, U.S. Environmental Protection Agency" shall be used in determining whether adequate evidence of potential carcinogenic effects exists.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1a	shall	The human evidence shall be considered inadequate and therefore the chemical cannot be classified as a human carcinogen, if any of the following conditions exists:	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes

3745-1-42	B1e	shall	Weight of evidence of potential human carcinogenic effects sufficient to derive a HCC shall generally include chemicals that are carcinogenic to humans and likely to be carcinogenic to humans and can include, on a case-by-case basis as determined by the director, chemicals with suggestive evidence of carcinogenic potential if studies have been well-conducted when compared to studies used in classifying chemicals that are carcinogenic to humans or likely to be carcinogenic to humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1e	shall	The decision to use data on a chemical with suggestive evidence of carcinogenic potential for deriving tier I criteria shall be a case-by-case determination.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1e	shall	. In determining whether to derive a HCC, additional evidence that shall be considered includes but is not limited to available information on mode of action, such as mutagenicity/genotoxicity (determinations of whether the chemical interacts directly with DNA), structure activity, and metabolism.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1f	shall	Weight of evidence of chemicals with effects suggestive of carcinogenic potential sufficient to derive a HCV shall include those chemicals with suggestive evidence of carcinogenic potential for which there are, at a minimum, data sufficient for quantitative risk assessment, but for which data are inadequate for tier I criterion development due to a tumor response of marginal statistical significance or inability to derive a strong dose-response relationship.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1f	shall	In determining whether to derive tier II human cancer values, additional evidence that shall be considered includes but is not limited to available information on mode of action such as mutagenicity/genotoxicity (determinations of whether the chemical interacts directly with DNA), structure activity and metabolism.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B1f	shall	As with the use of data on chemicals with suggestive evidence of carcinogenic potential in developing tier I criteria, the decision to use data on chemicals with suggestive evidence of carcinogenic potential to derive tier II values shall be made on a case-by-case basis by the director.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2a	shall	All available toxicity data shall be evaluated considering the full range of possible health effects of a chemical, i.e., acute/subacute, chronic/subchronic and reproductive/developmental effects, in order to best describe the dose- response relationship of the chemical, and to calculate human noncancer criteria (HNC) and human noncancer values (HNV) which will protect against the most sensitive endpoint of toxicity.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2b	shall	The minimum data set sufficient to derive an HNC shall include at least one well-conducted epidemiologic study or animal study.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2c	shall	As with tier I criteria, all available data shall be considered and shall address a range of adverse health effects with exposure over a substantial portion of the lifespan (or multiple generations) of the test species.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2c	shall	As with tier I criteria, all available data shall be considered and shall address a range of adverse health effects with exposure over a substantial portion of the lifespan (or multiple generations) of the test species.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2c	shall	With the use of appropriate uncertainty factors to account for a less extensive database, the minimum data sufficient to derive a tier II value shall include a NOAEL from at least one well-conducted short-term repeated dose study.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2c	shall	This study shall be of at least twenty-eight days duration, in animals demonstrating a dose-response, and involving effects biologically relevant to humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2c	shall	Use of a LOAEL shall be based on consideration of the following information: severity of effect, quality of the study and duration of the study.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B3a	shall	To be considered a tier I cancer or noncancer human health criterion, along with satisfying the minimum toxicity data requirements of paragraphs (B)(1) and (B)(2) of this rule, a chemical shall have the following minimum bioaccumulation data.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1a	shall	A non-threshold mechanism of carcinogenesis shall be assumed unless biological data adequately demonstrate the existence of a threshold on a chemical-specific basis.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1b	shall	All appropriate human epidemiologic data and animal cancer bioassay data shall be considered.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1b	shall	Data specific to an environmentally appropriate route of exposure shall be used.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1b	shall	The risk associated dose shall be set at a level corresponding to an incremental cancer risk of one in one hundred thousand.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1b	shall	If acceptable human epidemiologic data are available for a chemical, they shall be used to derive the risk associated dose.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1b	shall	. If acceptable human epidemiologic data are not available, the risk associated dose shall be derived from available animal bioassay data.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes

3745-1-42	C1b	shall	In the absence of data to distinguish the most relevant species, data from the most sensitive species tested, i.e., the species showing a carcinogenic effect at the lowest administered dose, shall be used.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1c	shall	When animal bioassay data are used and a non-threshold mechanism of carcinogenicity is assumed, the data shall be fitted to a linearized multistage model.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1c	shall	The upper-bound ninety-five per cent confidence limit on risk (or, the lower ninety-five per cent confidence limit on dose) at the one in one hundred thousand risk level shall be used to calculate a risk associated dose (RAD).	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1d	shall	In the absence of alternative approaches which compensate for study durations significantly less than lifetime, the process described in "Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, Office of Science and Technology, Office of Water, U.S. Environmental Protection Agency" shall be used.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1e	shall	A species scaling factor shall be used to account for differences between test species and humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1e	shall	It shall be assumed that milligrams per surface area per day is an equivalent dose between species.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1e	shall	All doses presented in mg/kg body weight shall be converted to an equivalent surface area dose by raising the mg/kg dose to the two-thirds power.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1f	shall	Consideration shall be given to tumor selection for modeling.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1f	shall	All doses shall be adjusted to give an average daily dose over the study duration.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1f	shall	Adjustments in the rate of tumor response shall be made for early mortality in test species.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1f	shall	The goodness-of-fit of the model to the data shall also be assessed.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1g	shall	When a linear, non-threshold dose response relationship is assumed, the RAD shall be calculated using the following equation:	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2a	shall	Noncarcinogens shall generally be assumed to have a threshold dose or concentration below which no adverse effects should be observed.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2a	shall	Therefore, the tier I criterion or tier II value shall be the maximum water concentration of a substance at or below which a lifetime exposure from drinking the water, consuming fish caught in the water, and ingesting water as a result of participating in water-related recreation activities is likely to be without appreciable risk of deleterious effects.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2a	shall	Criteria and values for these types of chemicals shall be established on a case-by-case basis using appropriate assumptions reflecting the likelihood that no threshold exists.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2b	shall	All appropriate human and animal toxicologic data shall be reviewed and evaluated.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2b	shall	To the maximum extent possible, data most specific to the environmentally relevant route of exposure shall be used.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2b	shall	When acceptable human data are not available (e.g., well-conducted epidemiologic studies), animal data from species most biologically relevant to humans shall be used.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2b	shall	In the absence of data to distinguish the most relevant species, data from the most sensitive animal species tested, i.e., the species showing a toxic effect at the lowest administered dose (given a relevant route of exposure), shall be used.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2c	shall	The experimental exposure level representing the highest level tested at which no adverse effects were demonstrated (NOAEL) from studies satisfying the provisions of paragraph (B)(2) of this rule shall be used for criteria calculations.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2d	shall	Uncertainty factors shall be used to account for the uncertainties in predicting acceptable dose levels for the general human population based upon experimental animal data or limited human data.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2di	shall	An uncertainty factor of ten shall be used when extrapolating from valid experimental results from studies on prolonged exposure to average healthy humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2dii	shall	An uncertainty factor of one hundred shall be used when extrapolating from valid results of long-term studies on experimental animals when results of studies of human exposure are not available or are inadequate.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2diii	shall	An uncertainty factor of up to one thousand shall be used when extrapolating from animal studies for which the exposure duration is less than chronic, but greater than ninety days length, or when other significant deficiencies in study quality are present, and when useful long-term human data are not available.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes

3745-1-42	C2div	shall	An uncertainty factor of up to three thousand shall be used when extrapolating from animal studies for which the exposure duration is less than twenty-eight days.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2dv	shall	The level of additional uncertainty applied shall depend upon the severity and the incidence of the observed adverse effect.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2dvi	shall	The level of quality and quantity of the experimental data available as well as structure-activity relationships shall be used to determine the factor selected.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2dvii	shall not	When deriving an uncertainty factor in developing a tier I criterion or tier II value, the total uncertainty, as calculated following the guidance of paragraphs (C)(2)(d)(i) to (C)(2)(d)(vi) of this rule, shall not exceed ten thousand for tier I criteria and thirty thousand for tier II values.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2e	shall	All study results shall be converted, as necessary, to the standard unit for acceptable daily exposure of milligrams of toxicant per kilogram of body weight per day (mg/kg/day). Doses shall be adjusted for continuous exposure.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2e	shall	All study results shall be converted, as necessary, to the standard unit for acceptable daily exposure of milligrams of toxicant per kilogram of body weight per day (mg/kg/day). Doses shall be adjusted for continuous exposure.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C3a	shall	Carcinogens. The tier I HCC and tier II HCV shall be calculated using the following equation:	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C3b	shall	Noncarcinogens. The tier I HNC or tier II HNV shall be calculated using the following equation:	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	D	shall	Application of criteria and values. The HCC, HCV, HNC and HNV shall be applied as thirty-day average concentrations outside the mixing zone.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2b	must	A well-conducted epidemiologic study for an HNC must quantify exposure level and demonstrate positive association between exposure to a chemical and adverse effect in humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2b	must	A well-conducted study in animals must demonstrate a dose response relationship involving one or more critical effect biologically relevant to humans.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	B2b	must	For an HNC developed pursuant to this rule, such a limited study must be conducted for at least ninety days in rodents or ten per cent of the lifespan of other appropriate test species and demonstrate a no observable adverse effect level (NOAEL).	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C1f	must	Additional data selection and adjustment decisions must also be made in the process of quantifying risk.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2a	may not	For some noncarcinogens, there may not be a threshold dose below which no adverse effects are observed.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-42	C2a	may not	Other chemicals also may not demonstrate a threshold.	6111.041	Federal	40 CFR 132 Appendix C	Yes	Yes, federal GLCPA	yes
3745-1-43	B1	shall	Equation for avian and mammalian wildlife values. Tier I wildlife values for BCCs shall be calculated using the following equation:	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	B1	shall	TD = test dose in milligrams of substance per kilograms per day (mg/kg-d) for the test species. This shall be either a NOAEL or a LOAEL.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	B1	shall	UFA = uncertainty factor for extrapolating toxicity data across species (unitless). A species-specific UF shall be selected and applied to each representative species, consistent with the equation.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	B1	shall	For consumption of piscivorous birds by other birds (e.g., herring gull by eagles), the BAF shall be derived by multiplying the trophic level three BAF for fish by a biomagnification factor to account for the biomagnification from fish to the consumed birds.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	B2	shall	The TD obtained from toxicity data for each taxonomic class shall be used to calculate WVs for each of the five representative species.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	B3	shall	The lower of the mammalian and avian WVs shall be selected as the tier I criterion.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2	shall	. To derive a tier I criterion for wildlife, the data set shall provide enough data to generate a subchronic or chronic dose-response curve for any given substance for both mammalian and avian species.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2	shall	In reviewing the toxicity data available which meet the minimum data requirements for each taxonomic class, the following order of preference shall be applied to select the appropriate TD to be used for calculation of individual WVs.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2	shall	An acceptable field study shall be of subchronic or chronic duration, provide a defensible, chemical-specific dose- response curve in which cause and effect are clearly established, and assess acceptable endpoints as defined in this document.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2	shall	When laboratory studies are used, preference shall be given to laboratory studies with wildlife species over traditional laboratory animals to reduce uncertainties in making interspecies extrapolations.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes

3745-1-43	C2	shall	All available laboratory data and field studies shall be reviewed to corroborate the final tier I criterion, to assess the reasonableness of the toxicity value used, and to assess the appropriateness of any UFs which are applied.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2	shall	When evaluating the studies from which a test dose is derived in general, the following requirements shall be met:	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2a	shall	The mammalian data shall come from at least one well-conducted study of ninety days or greater designed to observe subchronic or chronic effects as defined in this document.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2b	shall	The avian data shall come from at least one well-conducted study of seventy days or greater designed to observe subchronic or chronic effects as defined in this rule.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2d	shall	In assessing the studies which meet the minimum data requirements, preference shall be given to studies which assess effects on developmental or reproductive endpoints.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C3	shall	In selecting data to be used in the derivation of WVs, the evaluation of acceptable endpoints, as defined in paragraph (C)(1) of this rule, shall be the primary selection criterion.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C3a	shall	If more than one TD value is available within a taxonomic class, based on different endpoints of toxicity, that TD which is likely to reflect best potential impacts to wildlife populations through resultant changes in mortality or fecundity rates shall be used for the calculation of WVs.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C3b	shall	If more than one TD is available within a taxonomic class, based on the same endpoint of toxicity, the TD from the most sensitive species shall be used.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C3c	shall	If more than one TD based on the same endpoint of toxicity is available for a given species, the TD for that species shall be calculated using the geometric mean of those TDs.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C4	shall	In those cases in which a TD is available in units other than milligrams of substance per kilograms per day (mg/kg/d), the following procedures shall be used to convert the TD to the appropriate units prior to calculating a WV.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C4a	shall	If the TD is given in milligrams of toxicant per liter of water consumed by the test animals (mg/l), the TD shall be multiplied by the daily average volume of water consumed by the test animals in liters per day (l/d) and divided by the average weight of the test animals in kilograms (kg).	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C4b	shall	If the TD is given in milligrams of toxicant per kilogram of food consumed by the test animals (mg/kg), the TD shall be multiplied by the average amount of food in kilograms consumed daily by the test animals (kg/d) and divided by the average weight of the test animals in kilograms (kg).	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C5a	shall	When drinking and feeding rates and body weight are needed to express the TD in milligrams of substance per kilograms per day (mg/kg/d), they shall be obtained from the study from which the TD was derived.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C5a	shall	If not already determined, body weight, and drinking and feeding rates shall be converted to a wet weight basis.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C5b	shall	If the study does not provide the needed values, the values shall be determined from appropriate scientific literature.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C5b	shall	For studies done with domestic laboratory animals, either the "Registry of Toxic Effects of Chemical Substances" or "Recommendations for and Documentation of Biological Values for Use in Risk Assessment" shall be consulted.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C6	shall	If used, the LOAEL shall be divided by an UF to estimate a NOAEL for use in deriving WVs.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C6	shall not	The value of the UF shall not be less than one and shall not exceed ten, depending on the dose-response curve and any other available data, and is represented by UFL in the equation expressed in paragraph (B)(1) of this rule.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C6	shall not	The value of the UF shall not be less than one and shall not exceed ten, depending on the dose-response curve and any other available data, and is represented by UFL in the equation expressed in paragraph (B)(1) of this rule.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C7	shall	In such cases, the TD shall be divided by an UF to extrapolate from subchronic to chronic levels.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C7	shall	The value of the UF shall not be less than one and shall not exceed ten, and is represented by UFs in the equation expressed in paragraph (B)(1) of this rule.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C7	shall	The value of the UF shall not be less than one and shall not exceed ten, and is represented by UFs in the equation expressed in paragraph (B)(1) of this rule.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C7	shall	This factor shall be used when assessing highly bioaccumulative substances where toxicokinetic considerations suggest that a bioassay of limited length underestimates chronic effects.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C8a	shall	The selection of the UFA shall be based on the available toxicological data and on available data concerning the physicochemical, toxicokinetic, and toxicodynamic properties of the substance in question and the amount and quality of available data.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes

3745-1-43	C8b	shall not	For the derivation of tier I criteria, a UFA shall not be less than one and shall not exceed one hundred, and shall be applied to each of the five representative species, based on existing data and the director's best professional judgement.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C8b	shall not	For the derivation of tier I criteria, a UFA shall not be less than one and shall not exceed one hundred, and shall be applied to each of the five representative species, based on existing data and the director's best professional judgement.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C8b	shall	For the derivation of tier I criteria, a UFA shall not be less than one and shall not exceed one hundred, and shall be applied to each of the five representative species, based on existing data and the director's best professional judgement.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C8c	shall	For tier I wildlife criteria, the UFA shall be used only for extrapolating toxicity data across species within a taxonomic class, except as provided in this paragraph.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	E	shall	Application of criteria. The wildlife criterion shall be applied as a thirty-day average concentration outside the mixing zone.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	intro	require	This rule establishes a methodology which is required when developing tier I wildlife criteria for bioaccumulative chemicals of concern (BCCs).	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-43	C2	require	A TD value is required for criterion calculation.	6111.041	Federal	40 CFR 132 Appendix D	Yes	Yes, federal GLCPA	yes
3745-1-44	A1	shall	An acute toxicity level of 0.3 acute units (TUa) shall apply outside the mixing zone to limited resource water, warmwater, exceptional warmwater, coldwater, seasonal salmonid, and modified warmwater habitat use designations in accordance with this chapter and the following equation:	6111.041, 6111.03, 6111.12	Federal	40 CFR 132 Appendix F. 6. and 40 CFR 122.44(d)	Yes	Yes, federal	No
3745-1-44	A2	shall	A chronic toxicity level of 1.0 chronic toxic units (TUC) shall apply outside the mixing zone to warmwater, exceptional warmwater, coldwater, seasonal salmonid, and modified warmwater habitat use designations, where:	6111.041, 6111.03, 6111.12	Federal	40 CFR 132 Appendix F. 6. and 40 CFR 122.44(d)	Yes	Yes, federal	No
3745-1-44	C	shall	For undesignated waters, an acute toxicity level of 0.3 TUa and a chronic toxicity level of 1.0 TUC shall apply outside of the mixing zone.	6111.041, 6111.03, 6111.12	Federal	40 CFR 132 Appendix F. 6. and 40 CFR 122.44(d)	Yes	Yes, federal	No
3745-1-44	D	shall	Acute toxicity within the mixing zone shall be regulated by paragraph (B) of 3745-33-07 of the Administrative Code.	6111.041, 6111.03, 6111.12	State General Authority		Yes	no	No
3745-1-50	intro	shall	In addition to the definitions in rules 3745-1-02 and 3745-32-01 of the Administrative Code technical words used in rules 3745-1-50 to 3745-1-54 of the Administrative Code shall be defined as follows:	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-50	AA	must	In the event a legal instrument is not a viable option based on land ownership or lease agreements where compensatory mitigation has occurred, the applicant must clearly demonstrate operational control to sustain and preserve the compensatory mitigation project after performance standards are met and monitoring requirements have been fulfilled.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-50	D	require	"Applicant" means any person required to submit an application to obtain a section 401 water quality certification or isolated wetland permit from the Ohio environmental protection agency (Ohio EPA).	6111.03, 6111.30, 6111.02-6111.028	State and Federal Required	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387)	Yes	Yes	No
3745-1-50	F	must	"Avoidance" is the first step in the alternatives analysis and means that the applicant must demonstrate that alternatives that fulfill the basic project purpose and have less or no impacts to the wetland are not practicable, so long as the alternative does not have other significant adverse environmental consequences.	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-50	J1	require	The specific areas within the geographical area currently occupied by a species, at the time it is listed in accordance with the Endangered Species Act on which are found those physical or biological features essential to the conservation of the species, and that may require special management considerations or protection.	6111.041, 6111.12	State General Authority and Federal Required	Endangered Species Act (16 U.S.C. §1532(5)(A))	Yes	Yes	No
3745-1-50	K	shall	Cumulative impacts shall be considered on a watershed basis.	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-51	A	shall	The hydrology necessary to support the biological and physical characteristics naturally present in wetlands shall be protected to prevent significant adverse impacts on any of the following:	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-51	B	shall	Water quality necessary to support existing habitats, and the populations of wetland flora and fauna shall be protected to prevent significant adverse impacts on any of the following:	6111.041, 6111.12	State General Authority		Yes	No	No

3745-1-51	B6	shall	Water quality shall be protected to prevent conditions conducive to the establishment or proliferation of nuisance organisms, as that term is defined in rule 3745-1-50 of the Administrative Code.	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-51	C	shall not	Conditions shall not occur that will have a significant adverse impact on the ability of the wetland to be used for wetland-dependent recreational opportunities in or on the water.	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-51	intro	shall	In addition to the criteria listed in rule 3745-1-04 of the Administrative Code, to every extent practicable and possible as determined by the director, and except as authorized in accordance with rule 3745-1-54 of the Administrative Code, the following narrative criteria shall apply to wetlands.	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-52	intro	shall	For the purposes of establishing waste water discharge permit limits for waste water discharges to wetlands pursuant to Chapter 6111. of the Revised Code, numeric chemical criteria associated with the "warmwater aquatic life habitat" use designation, as specified in this chapter of the Administrative Code, shall apply at the "end of pipe".	6111.041, 6111.12	State General Authority		Yes	No	No
3745-1-54	B1	shall	The wetland designated use shall be maintained and protected such that degradation of surface waters through direct, indirect, or cumulative impacts does not result in the net loss of wetland acreage or functions or services in accordance with paragraphs (D), (E), and (F) of this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	B2a	shall	Each wetland shall be assigned a category by Ohio EPA for the purposes of reviews of projects pursuant to this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	Yes
3745-1-54	B4a	shall	In making determinations regarding the lowering of water quality in wetlands which contain critical habitat for threatened or endangered species, or either the permanent or seasonal presence of a threatened or endangered species, the director shall consider the anticipated impact of the proposed lowering of water quality on the threatened or endangered species.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	Yes
3745-1-54	B4b	shall	To assist the director in making this determination, an applicant shall provide Ohio EPA written comments from both the Ohio department of natural resources and the U.S. fish and wildlife service, regarding threatened and endangered species, including the presence or absence of critical habitat, for all wetlands under review, unless another entity has been designated by the aforementioned agencies to make this determination. In that case, the designated entity shall provide the required written comments.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	B4b	shall	To assist the director in making this determination, an applicant shall provide Ohio EPA written comments from both the Ohio department of natural resources and the U.S. fish and wildlife service, regarding threatened and endangered species, including the presence or absence of critical habitat, for all wetlands under review, unless another entity has been designated by the aforementioned agencies to make this determination. In that case, the designated entity shall provide the required written comments.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	B4b	require	To assist the director in making this determination, an applicant shall provide Ohio EPA written comments from both the Ohio department of natural resources and the U.S. fish and wildlife service, regarding threatened and endangered species, including the presence or absence of critical habitat, for all wetlands under review, unless another entity has been designated by the aforementioned agencies to make this determination. In that case, the designated entity shall provide the required written comments.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	B6c	shall	When reviewing applications for discharges to wetlands which have occurred without prior authorization, the fact that the discharge has already occurred shall have no bearing on the decision of whether to allow lower water quality.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	B6c	shall	Ohio EPA shall review the impacts based on pre-discharge conditions.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	Yes
3745-1-54	B6d	require	The director may require compensatory mitigation, if approved in accordance with other provisions of this rule, at the same mitigation ratios as required for impacts to category 3 wetlands, as indicated in table E-1 of this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	B6d	require	The director may require compensatory mitigation, if approved in accordance with other provisions of this rule, at the same mitigation ratios as required for impacts to category 3 wetlands, as indicated in table E-1 of this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	C4	shall	Requests to undertake activities which will result in short-term disturbances to water quality in wetlands which are designated as outstanding national resource waters shall be evaluated in accordance with rule 3745-1-05 of the Administrative Code.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1a	shall	The wetland designated use shall be maintained and protected for wetlands assigned to category 1 unless the applicant demonstrates, to the satisfaction of the director, all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No

3745-1-54	D1b	shall	The wetland designated use shall be maintained and protected for wetlands assigned to category 2, and no lowering of water quality shall be allowed, unless the applicant demonstrates to the satisfaction of the director all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1b	shall	The wetland designated use shall be maintained and protected for wetlands assigned to category 2, and no lowering of water quality shall be allowed, unless the applicant demonstrates to the satisfaction of the director all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1bii	shall	For category 2 wetlands, the applicant shall minimize all potential adverse impacts foreseeably caused by the project and each application shall include an evaluation of all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1bii	shall	For category 2 wetlands, the applicant shall minimize all potential adverse impacts foreseeably caused by the project and each application shall include an evaluation of all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1c	shall	The wetland designated use shall be maintained and protected in wetlands assigned to category 3, and no lowering of water quality shall be allowed, unless the applicant demonstrates to the satisfaction of the director all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1c	shall	The wetland designated use shall be maintained and protected in wetlands assigned to category 3, and no lowering of water quality shall be allowed, unless the applicant demonstrates to the satisfaction of the director all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1cii	shall	For category 3 wetlands, the applicant shall minimize all potential adverse impacts foreseeably caused by the project and each application shall include an evaluation of all of the following	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D1cii	shall	For category 3 wetlands, the applicant shall minimize all potential adverse impacts foreseeably caused by the project and each application shall include an evaluation of all of the following	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D2	shall	Appropriate storm water control measures shall be installed to ensure that peak post-development rates of surface water runoff from the impacted wetland site do not exceed the peak pre-development rates of runoff from the on-site wetlands, for all categories of wetlands.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	D2	shall	Water quality improvement measures shall be incorporated into the design of the storm water control measures to the maximum extent practicable.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	E1	shall	The compensatory mitigation type and location shall be provided in the following preferred order:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	E2	require	Deviations from the preferred order established in paragraph (E)(1) of this rule require a demonstration of all of the following:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	E3	shall	Compensatory mitigation shall be in-kind unless there is a compelling ecological reason that it should not be.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F1	shall	Reestablishment (restoration) or establishment (creation) of wetlands as the sole component of compensatory mitigation shall be in accordance with the ratios and other provisions in paragraph (E) of this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F2	must	The applicant must demonstrate that the compensatory mitigation site will be protected long term and that appropriate management measures are, or will be, in place to restrict harmful activities that may jeopardize the compensatory mitigation wetland.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F3	shall	Compensatory mitigation shall be in the form of wetland reestablishment (restoration) unless it can be demonstrated by the applicant that wetland reestablishment (restoration) is impracticable.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F4	shall	Reestablishment (restoration) or establishment (creation) of wetlands as compensatory mitigation shall replace the impacted wetland with an equivalent or higher quality wetland.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F5a	shall	In determining the acceptability of wetlands rehabilitation (enhancement) as compensatory mitigation, the director shall consider the extent to which the rehabilitation (enhancement) activities will improve or repair the existing or natural functions and services of the wetland.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	Yes
3745-1-54	F5c	shall	When wetland rehabilitation (enhancement) is a component of acceptable compensatory mitigation, wetlands reestablishment (restoration) or establishment (creation) must also be a component of the compensatory mitigation and shall result in at least one acre of reestablished (restored) or established (created) wetland for each acre of wetland that is impacted.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No

3745-1-54	F5c	must	When wetland rehabilitation (enhancement) is a component of acceptable compensatory mitigation, wetlands reestablishment (restoration) or establishment (creation) must also be a component of the compensatory mitigation and shall result in at least one acre of reestablished (restored) or established (created) wetland for each acre of wetland that is impacted.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F5c	must	Wetland rehabilitation (enhancement) must occur at a rate of at least two acres of wetland rehabilitation (enhancement) for every remaining acre of the compensatory wetland mitigation requirement. The wetland rehabilitation (enhancement) requirement can be calculated using the following equation:	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F5c	require	E = minimum number of acres of wetlands required to be enhanced.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F5c	require	For example, if the required mitigation ratio for compensatory mitigation of a category 3 forested wetland is 3:1 for an impact to two acres of wetland, an acceptable mitigation plan may include at least two acres of reestablished (restored) or established (created) wetlands and at least eight acres of rehabilitated (enhanced) wetlands.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6aiii	shall	The wetland to be preserved for compensatory mitigation purposes shall be deeded to a responsible party for management or rehabilitation (enhancement) in accordance with a plan approved by the director.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6aiv	shall	Long term protection of the wetland to be preserved for compensatory mitigation purposes shall include upland buffers and generally occur prior to any filling of wetlands at the project site.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6b	shall	When preservation is a component of acceptable compensatory mitigation, wetlands establishment (restoration) or establishment (creation) must also be a component of the compensatory mitigation and shall result in at least one acre of reestablished (restored) or established (created) wetland for each acre of wetland that is impacted to ensure no net loss of wetland acreage or function, unless the director determines that reestablishment (restoration) or establishment (creation) need not be a component of compensatory mitigation based on significant ecological reasons.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6b	must	When preservation is a component of acceptable compensatory mitigation, wetlands establishment (restoration) or establishment (creation) must also be a component of the compensatory mitigation and shall result in at least one acre of reestablished (restored) or established (created) wetland for each acre of wetland that is impacted to ensure no net loss of wetland acreage or function, unless the director determines that reestablishment (restoration) or establishment (creation) need not be a component of compensatory mitigation based on significant ecological reasons.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6b	must	Wetland preservation must occur at a rate of two acres of preservation for every remaining acre of the compensatory wetland mitigation requirement.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6b	require	P = minimum number of acres of wetlands required to be preserved	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F6b	require	For example, if the required mitigation ratio for compensatory mitigation of a category 3 forested wetland is 3:1 for an impact to two acres of wetland, an acceptable compensatory mitigation plan may include at least two acres of reestablished (restored) wetlands and at least eight acres of preserved wetlands.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F7d	shall not	When upland buffers are a component of acceptable compensatory mitigation, credit shall not exceed more than 0.5 units of the required compensatory mitigation ratio, as identified in table E-1 of this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F7d	require	When upland buffers are a component of acceptable compensatory mitigation, credit shall not exceed more than 0.5 units of the required compensatory mitigation ratio, as identified in table E-1 of this rule.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No
3745-1-54	F8	shall	The director shall require the permittee to conduct ecological monitoring of the compensatory mitigation project and submit annual reports detailing the results of the ecological monitoring.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	Yes
3745-1-54	F8	require	The director shall require the permittee to conduct ecological monitoring of the compensatory mitigation project and submit annual reports detailing the results of the ecological monitoring.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	Yes
3745-1-54	F8b	shall	Ecological monitoring shall be conducted for a period of at least five years for non-forested wetlands and at least ten years for forested wetlands following construction of the compensatory mitigation.	6111.041, 6111.12, 6111.30	State General Authority		Yes	No	No

Notes: In 1993, the Ohio legislature told Ohio EPA that we can keep the modeling procedures as a guidance document, but said that if we ever changed the procedures, then we would be required to

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-2-02	B	shall	Technical words used in this chapter shall be defined as listed below.	6111.03, 6111.12	ENTIRE CHAPTER = adopted because of the promulgation of 40 CFR part 132 (entire chapter).		yes	no	This entire chapter lays out how OEPA calculates WLAs for permits.
3745-2-02	B40	shall	The mixing zone shall be considered a place where wastewater and receiving water mix and not as a place where wastes are treated.	6111.03, 6111.12	Federal	40 CFR 132	yes	yes	yes
3745-2-02	B49	shall	A pollution prevention alternatives analysis shall demonstrate a good faith effort by the discharger to review equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials and improvements to housekeeping.	6111.03, 6111.12	Federal	40 CFR 132, part E	yes	yes	yes
3745-2-02	B58	shall	Aquatic species designated as representative shall satisfy one or more of the following:	6111.03, 6111.12	general authority		yes	no	yes
3745-2-02	B69	shall not	All storm water discharges associated with industrial activity that are mixed with process wastewater shall not be considered a wet weather point source.	6111.03, 6111.12	Federal	40 CFR 132.2	yes	yes	yes
3745-2-02	B7	require	Ambient screening values mean numbers that estimate the concentration of a pollutant in a receiving water required to protect humans from non-carcinogenic health effects and aquatic life from acute and chronic effects.	6111.03, 6111.12	Federal	40 CFR 132, Part F	yes	yes	yes
3745-2-02	B8 Comment	require	Federal regulations at 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv) require NPDES applicants and permittees to use sufficiently sensitive test methods when quantifying the presence of pollutants in a discharge as part of an application and for the analysis of pollutants under the permit.	6111.03, 6111.12	Federal	40 CFR 122.21 and 122.44	yes	yes	yes
3745-2-02	B8 Comment	require	Applicants and permittees are required to use analytical methods that are capable of detecting and measuring the pollutants at, or below, the respective water quality criteria or permit limits. The regulations address when a method is sufficiently sensitive.	6111.03, 6111.12	Federal	40 CFR 122.21 and 122.44	yes	yes	yes
3745-2-02	B49	require	The discharger is not required to implement a pollution prevention alternative if it is not technically or economically feasible.	6111.03, 6111.12	Federal	40 CFR 132, Appendix E and F	yes	yes	yes
3745-2-02	B55b	require	"Group two" pollutants have little potential based on water quality data to cause or contribute to a water quality excursion; permit requirements may not be warranted based solely on water quality considerations.	6111.03, 6111.12			yes		yes
3745-2-02	B55c	require	permit requirements may not be warranted based solely on water quality considerations.	6111.03, 6111.12			yes		yes
3745-2-02	B55d	require	permit monitoring requirements are generally warranted based solely on water quality considerations.	6111.03, 6111.12			yes		yes
3745-2-02	B58g	require	Species that are representative of the ecological, behavioral, and physiological requirements and characteristics of species determined in paragraphs (B)(58)(a) to (B)(58)(f) of this rule, but which themselves may not be representative.	6111.03, 6111.12			yes		yes
3745-2-02	B69	require	discharges of storm water and sanitary wastewaters (domestic, commercial, and industrial) from a combined sewer overflow; or any other storm water discharge for which a permit is required under section 402 (p) of the act.	6111.03, 6111.12	Federal	40 CFR 132.2	yes	yes	yes
3745-2-02	B55b	may not	permit requirements may not be warranted based solely on water quality considerations.	6111.03, 6111.12			yes	yes	
3745-2-02	B55c	may not	permit requirements may not be warranted based solely on water quality considerations.	6111.03, 6111.12			yes	yes	
3745-2-02	B58g	may not	Species that are representative of the ecological, behavioral, and physiological requirements and characteristics of species determined in paragraphs (B)(58)(a) to (B)(58)(f) of this rule, but which themselves may not be representative.	6111.03, 6111.12			yes	yes	
3745-2-04	A	shall	Ohio EPA shall develop wasteload allocations (WLAs) for pollutants if any of the following apply:	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	C	shall	Ohio EPA shall evaluate available data to determine applicable numeric criteria.	6111.03, 6111.12	Federal, State	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	C	shall	Ohio EPA shall also take the following actions:	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes

3745-2-04	C1	shall	Ohio EPA shall use all available and relevant information to estimate ambient screening values that will protect humans from health effects other than cancer, and aquatic life from acute and chronic effects.	6111.03, 6111.12	Federal, State	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	C2	shall	Ohio EPA shall develop WLAs based upon the ambient screening values that are consistent with rule 3745-2-05 of the Administrative Code.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	C3	shall	Ohio EPA shall use the WLAs based on ambient screening values to determine if data must be generated to develop numeric criteria for that pollutant.	6111.03, 6111.12	Federal, State	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	C4	shall not	Ohio EPA shall not use the WLAs based on ambient screening values to develop WQBELs.	6111.03, 6111.12	Federal, State	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	D	shall	Ohio EPA shall determine the maximum PEQ and the average PEQ to meet the following requirements, unless otherwise exempt from determination by paragraph (B) of this rule.	6111.03, 6111.12	Federal, State	40 CFR 122.44(d), 40 CFR 132	yes	yes	
3745-2-04	D1	shall	The discharge-specific effluent monitoring data shall be selected to best represent the magnitude and variability of that pollutant in the discharge as projected for the applicable period of the permit.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	D1a	shall	The most recent five years of data shall be used unless an alternate period of record better represents the projected effluent quality.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	D1c	shall	The data shall be based on independent grab or twenty-four hour composite effluent samples.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	D2	shall	The maximum PEQ shall be determined as the ninety-fifth percentile of the projected population of daily values of the discharge-specific effluent monitoring data using a scientifically defensible statistical method that accounts for and captures the long-term daily variability of the effluent quality, accounts for limitations associated with sparse data sets, and assumes a log-normal distribution of the discharge-specific effluent data (unless another distribution can be demonstrated to be more appropriate).	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	D3	shall	The average PEQ shall be determined as the ninety-fifth percentile of the projected population of monthly averages of the discharge-specific effluent monitoring data using a scientifically defensible statistical method that accounts for and captures the long-term variability of the monthly average effluent quality, accounts for limitations associated with sparse data sets, and assumes a log-normal distribution of the discharge-specific effluent data (unless another distribution can be demonstrated to be more appropriate).	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E1	shall	For numeric criteria that vary with water hardness, Ohio EPA shall calculate the applicable numeric criteria based on a water hardness concentration that meets the following:	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E1ai	shall	The median of the water hardness values shall be used if ten or more values are available.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E1aai	shall	The arithmetic mean of the water hardness values shall be used if less than ten values are available.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E1b	shall	If water hardness data are not available that represent the concentration in the receiving water downstream of the mixing zone under the applicable design conditions, the annual twenty-fifth percentile of water hardness data considered by Ohio EPA to be representative of the natural background conditions for that receiving water shall be used.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E2	shall	For numeric criteria that vary with pH (other than for ammonia), Ohio EPA shall calculate the applicable numeric criteria based on a pH that meets the following:	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E2a	shall	If pH data are available that represent the long term daily variation in the receiving water downstream of the mixing zone under the applicable design conditions, the median of the pH values shall be used.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E2b	shall	If pH data are not available that represent the long term daily variation in the receiving water downstream of the mixing zone under the applicable design conditions, the annual twenty-fifth percentile or seventy-fifth percentile (whichever value results in the more stringent numeric criterion) of pH data considered by Ohio EPA to be representative of the natural background conditions for that receiving water shall be used.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	E3	shall	Ohio EPA shall determine numeric criteria for two seasonal periods, summer and winter.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-04	E3	shall	Ohio EPA shall calculate numeric criteria for ammonia based on temperature and pH values that meet the following:	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d)	yes	yes	yes

3745-2-04	E3a	shall	Temperature and pH shall be based on data collected during the following periods	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-04	E3b	shall	For each applicable season, temperature and pH statistics shall be determined based on the available ambient data that best represents the long-term daily variation in the receiving water downstream of the mixing zone.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-04	E3b	shall	The following statistics shall be used to determine the applicable ammonia criteria:	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-04	E5	shall	Ohio EPA shall consider the numeric water quality criteria applicable to the receiving water to be maintained if the allowable duration and frequency of exceedance recommended in the U.S. EPA "Technical Support Document for Water Quality-based Toxics Control" are met.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F	shall	Ohio EPA shall determine the appropriate criteria applicable to determining WLAs using the following conditions:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F1	shall	Except for hexavalent chromium, Ohio EPA shall convert the dissolved aquatic life criteria to effective total recoverable criteria by multiplying the applicable dissolved criteria by the dissolved metal translator (DMT) applicable to that metal, receiving water, and discharge, as defined in paragraphs (F)(4) to (F)(8) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F2	shall	In the absence of an applicable DMT, Ohio EPA shall apply the total recoverable aquatic life criteria to determine WLAs for that metal as provided in Chapter 3745-1 of the Administrative Code and determined in accordance with paragraph (E) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F3	shall	For hexavalent chromium, Ohio EPA shall apply the dissolved aquatic life criteria to develop and express WLAs in dissolved form.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F4	shall	For acute and chronic aquatic life criteria, an applicable DMT shall represent the receiving waters downstream of the chronic mixing zone under design conditions.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F5	shall	For the IMZM criterion, the DMT applicable to the acute aquatic life criterion shall be applied, with the following exceptions:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F5aii	shall	If an applicable effluent DMT is not determined, the total recoverable IMZM criteria shall be applied in accordance with paragraph (F)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F6	shall	The discharge-specific DMT shall be applied by Ohio EPA to determine the effective total recoverable criteria applicable to that metal.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F7	shall	Ohio EPA shall apply that water-body-segment-specific DMT to determine the effective total recoverable criteria applicable to that metal.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	F8	shall	Ohio EPA shall apply the region-specific DMT in determining effective total recoverable criteria applicable to that metal.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G	shall	A discharge-specific DMT shall be determined in accordance with the U.S. EPA document, "The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From A Dissolved Criterion" (translator document) except as follows:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G2	shall	The discharge-specific DMT shall be determined to represent the receiving water downstream of the applicable mixing zone under the more restrictive of the following conditions:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G3	shall	The discharge-specific DMT shall represent the ratio of the total recoverable concentration of a metal to the dissolved concentration	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G3	shall	An individual DMT measurement shall be determined as the ratio of the total recoverable concentration of a metal in a water sample to the dissolved concentration of that metal in the same water sample or a separate sample collected at the same time and location.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G4	shall	Clean sampling and analytical procedures in accordance with the U.S. EPA document "Method 1669: Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels" shall be applied in the collection and analysis of the metals concentrations used to determine a DMT measurement	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no

3745-2-04	G5	shall	At a minimum, the following measurements shall also be made at the same time and location as each of the DMT measurements:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G6	shall not	If either or both of the total recoverable and dissolved concentrations on which a DMT measurement is based are less than the applicable practical quantification level (PQL), then the DMT measurement shall not be used in determining the discharge-specific DMT unless the inaccuracies associated with concentrations less than PQL can be demonstrated to be insignificant or are accounted for through application of scientifically defensible conservative measures.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G6a	shall not	If the total recoverable concentration, or both the total recoverable and dissolved concentrations, are below the applicable detection level, then the DMT measurement shall not be used in determining the discharge-specific DMT.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G7	shall not	All DMT measurements applicable to the discharge and receiving water shall be used in determining the discharge-specific DMT, unless the DMT measurements are eliminated in accordance with paragraph (G)(6) of this rule or the DMT measurements can be demonstrated to be inaccurate or unrepresentative of the conditions applicable under paragraph (G)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G7	shall	A DMT measurement less than one, where the observed dissolved metal concentration exceeds the total recoverable concentration, shall not be eliminated unless the individual concentration measurements can otherwise be demonstrated to be inaccurate.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G8a	shall	The discharge-specific DMT shall be calculated as the geometric mean of the measured translators if all of the following conditions are met:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G8b	shall	the discharge-specific DMT shall be calculated by a scientifically defensible method that accounts for the inaccuracies associated with small data sets or data that may not represent the conditions applicable under paragraph (G)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G9	shall	including conditions outside those applicable under paragraph (G)(2) of this rule, a scientifically defensible method shall be applied to determine the mathematical relationships between the DMT measurements and the other measured factors, separately and in combination, including but not limited to stream flow and total suspended solids concentrations.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G9	shall	Scientifically defensible methods shall also be used to determine the values for each measured factor that will occur during the receiving water and effluent conditions applicable under paragraph (G)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G9	shall	The discharge-specific DMT shall be determined based on the most significant of these relationships and values to represent the conditions applicable under paragraph (G)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G9	shall	These methods shall account for any inaccuracies or uncertainties associated with the data or the derived relationships so as to provide reasonable assurance that possible inaccuracies in the discharge-specific DMT will not result in exceedance of applicable aquatic life criteria.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G11	shall	After completion of the discharge-specific DMT study, the discharger shall submit a final report to Ohio EPA, including at a minimum the following information:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G12	shall	Each discharge-specific DMT calculated pursuant to the requirements of paragraph (G) of this rule shall be used in determination of WLAs for that discharge in accordance with paragraph (F) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G12	shall not	Ohio EPA shall not apply that DMT in determination of WLAs, but may take one of the following actions:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G13	shall	All studies and reports required under paragraph (G) of this rule shall be in compliance with a schedule agreed upon between Ohio EPA and the discharger such that the discharge-based DMTs will be completed prior to the scheduled determination of WLAs for that discharge.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G14	shall	If sampling is required as a condition of an NPDES permit to verify the continued validity of an applied discharge-specific DMT for a metal (in accordance with paragraph (C) of rule 3745-33-05 of the Administrative Code), the following requirements shall apply:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no

3745-2-04	G14a	shall	At least one DMT measurement shall be made during the permit period that, in Ohio EPA's determination, adequately represents the receiving water downstream of the mixing zone for the discharge under the applicable design conditions and meets the requirements of paragraph (G) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G14b	shall	The DMT measurements shall be collected in accordance with a schedule in the NPDES permit such that the results of the measurement will be available prior to the next scheduled determination of WLAs for that discharge.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	C3	must	In accordance with paragraph (B)(6) of rule 3745-2-06 of the Administrative Code, Ohio EPA shall use the WLAs based on ambient screening values to determine if data must be generated to develop numeric criteria for that pollutant.	6111.03, 6111.12	Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	A	require	For each discharge that may require the development of water quality-based effluent limitations (WQBELs), Ohio EPA shall develop wasteload allocations (WLAs) for pollutants if any of the following apply:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	A3	require	The discharge is considered by Ohio EPA to be interactive with one or more other discharges to the receiving water for this pollutant and one or more of the discharges will require WLAs for this pollutant based on conditions other than this condition	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-04	A5	require	A WQBEL is required to meet other federal, state, or local regulations or as may be necessary to implement surface water or NPDES permit programs.	6111.03, 6111.12	Federal, State, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-04	B1	require	If all available effluent data for a pollutant are below the analytical detection levels applied to that data, then a maximum PEQ and an average PEQ cannot be calculated for that pollutant and a determination of WLAs will not be required unless one or more of the conditions in paragraphs (A)(3) to (A)(5) of this rule apply.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	B2	require	If Ohio EPA determines that a WLA is required for a pollutant based on any one of the conditions listed in paragraph (A) of this rule, Ohio EPA is not required to evaluate the applicability of the other conditions.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	B2	require	If Ohio EPA determines that a WLA is required for a pollutant based on any one of the conditions listed in paragraph (A) of this rule, Ohio EPA is not required to evaluate the applicability of the other conditions.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	C	require	For discharges in the lake Erie basin: For pollutants that require WLA determination based on paragraph (A)(4) or (A)(5) of this rule, but do not have established numeric criteria in Chapter 3745-1 of the Administrative Code, Ohio EPA shall evaluate available data to determine applicable numeric criteria. Ohio EPA shall also take the following actions:	6111.03, 6111.12	Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	D	require	For each pollutant for which discharge-specific effluent data is available and one or more data values equal or exceed the analytical detection levels applied to that data, Ohio EPA shall determine the maximum PEQ and the average PEQ to meet the following requirements, unless otherwise exempt from determination by paragraph (B) of this rule.	6111.03, 6111.12			yes	yes	
3745-2-04	G6	require	Additionally, if either or both of the total recoverable and dissolved concentrations on which a DMT measurement is based are less than the applicable analytical detection level, the following requirements apply:	6111.03, 6111.12			yes	yes	
3745-2-04	G8	require	If the DMT measurements were collected during receiving water and effluent conditions approximating the conditions applicable under paragraph (G)(2) of this rule, the following requirements apply to the determination of a discharge-specific DMT.	6111.03, 6111.12			yes	yes	
3745-2-04	G12	require	Each discharge-specific DMT calculated pursuant to the requirements of paragraph (G) of this rule shall be used in determination of WLAs for that discharge in accordance with paragraph (F) of this rule.	6111.03, 6111.12			yes	yes	
3745-2-04	G12	require	If a discharge-specific DMT for a metal was not calculated in accordance with the requirements of paragraph (G) of this rule, Ohio EPA shall not apply that DMT in determination of WLAs, but may take one of the following actions:	6111.03, 6111.12			yes	yes	
3745-2-04	G12b	require	Ohio EPA may allow the discharger to revise the study and discharge-specific DMT for that metal to meet the requirements of this rule and resubmit the final report	6111.03, 6111.12			yes	yes	
3745-2-04	G13	require	All studies and reports required under paragraph (G) of this rule shall be in compliance with a schedule agreed upon between Ohio EPA and the discharger such that the discharge-based DMTs will be completed prior to the scheduled determination of WLAs for that discharge.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no

3745-2-04	G14	require	If sampling is required as a condition of an NPDES permit to verify the continued validity of an applied discharge-specific DMT for a metal (in accordance with paragraph (C) of rule 3745-33-05 of the Administrative Code), the following requirements shall apply:	6111.03, 6111.12	Federal, General		yes	yes	
3745-2-04	G14	require	If sampling is required as a condition of an NPDES permit to verify the continued validity of an applied discharge-specific DMT for a metal (in accordance with paragraph (C) of rule 3745-33-05 of the Administrative Code), the following requirements shall apply:	6111.03, 6111.12	Federal, General		yes	yes	
3745-2-04	G14a	require	At least one DMT measurement shall be made during the permit period that, in Ohio EPA's determination, adequately represents the receiving water downstream of the mixing zone for the discharge under the applicable design conditions and meets the requirements of paragraph (G) of this rule.	6111.03, 6111.12	Federal, General		yes	yes	
3745-2-04	G15	require	Ohio EPA may apply that discharge-specific DMT in determination of WLAs required for NPDES permit renewal for that discharge.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G16a	require	Ohio EPA may require the discharger to collect additional DMT measurements and redetermine an applicable discharge-specific DMT, in accordance with this rule. Data from the original discharge-specific DMT study may be included if the discharger demonstrates that the data are applicable.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	no
3745-2-04	G16c	require	Ohio EPA may apply a discharge-specific DMT determined under paragraph (G)(16)(a) or (G)(16)(b) of this rule to determine WLAs for that discharge as required for renewal or a modification of an NPDES permit.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-04	G8b	may not	If the conditions in paragraph (G)(8)(a) of this rule are not met, but sufficient data are available to accurately estimate the variability of DMT measurements, the discharge-specific DMT shall be calculated by a scientifically defensible method that accounts for the inaccuracies associated with small data sets or data that may not represent the conditions applicable under paragraph (G)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 122.45(c), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A	shall	For discharges of toxic and carcinogenic pollutants to flowing receiving waters, a wasteload allocation (WLA) for a pollutant shall be calculated for each water quality criterion applicable in accordance with rule 3745-2-04 of the Administrative Code using the following mass balance equation:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A1	shall	The following stream design flows shall be used to determine WLAs for discharges to flowing receiving waters, unless otherwise specified in this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A1e	shall	The per cent of stream design flow contained in paragraph (A)(2) of this rule shall be used in all WLAs, except as specifically provided by paragraph (A)(2)(f) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A1e	shall	The per cent of stream design flow used for conducting WLAs to achieve maximum and average water quality criteria shall be the same, except as provided in paragraphs (A)(2)(d) and (A)(2)(e) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A1f	shall	Stream design flows for streams that are impacted by reservoirs or other physical alterations which impact stream flow shall be determined on a case-by-case basis, taking into account relevant site-specific factors	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A1f	shall	Stream design flows for such impacted stream segments shall be established at levels to ensure protection of designated uses.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2a	shall	If the annual 7Q10 is less than or equal to 1.0 cubic feet per second, or if the SDR is equal to or less than 10.0, one hundred per cent of the applicable stream design flow shall be used in the WLA.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2b	shall	If the SDR is equal to or greater than 252.0, the WLA shall be calculated using twenty-five per cent of the applicable stream design flow.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2c	shall	If the SDR is greater than 10.0 but less than 252.0, the WLA shall be calculated using the per cent of the applicable stream design flow determined by the following equation:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2di	shall	WLAs to maintain average criteria shall be calculated using twenty-five per cent of the applicable stream design flow.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2dii	shall	WLAs to maintain maximum criteria shall be calculated using the SDR to determine the applicable percentage of the stream design flow, as established in paragraphs (A)(2)(a) to (A)(2)(c) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A2diii	shall	No new discharges of bioaccumulative chemicals of concern (BCCs) shall be allowed a mixing zone after December 30, 2002.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2div	shall	For existing discharges of BCCs, mixing zones shall be phased out.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes

3745-2-05	A2div	shall	No mixing zone shall be available after November 15, 2010, unless the discharger demonstrates to the satisfaction of the director, that a mixing zone is necessary for technical, economic, or water conservation reasons.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2ei	shall	No new discharges of bioaccumulative chemicals of concern (BCCs) shall be allowed a mixing zone after December 30, 2002.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2eii	shall	For existing discharges of BCCs, mixing zones shall be phased out.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2eii	shall	No mixing zone shall be available after November 15, 2010, unless the discharger demonstrates to the satisfaction of the director, that a mixing zone is necessary for technical, economic, or water conservation reasons.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	A2f	shall	The following stream design flows and percentages of stream design flows shall be used for WLAs for direct discharges to the Ohio river:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A2fi	shall	WLAs to maintain average aquatic life criteria shall use ten per cent of the 7Q10	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A2fii	shall	WLAs to maintain maximum aquatic life criteria shall use one per cent of the 7Q10.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A2fiii	shall	WLAs for human health criteria for carcinogens, agricultural water supply criteria, and aesthetic criteria shall use ten per cent of the HMQ.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A2fiv	shall	WLAs for human health criteria for non-carcinogens shall use one hundred per cent of the 7Q10.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3	shall	Background water quality shall be determined using the following methods	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3ai	shall	The arithmetic mean shall be used if the number of observations is less than ten.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3aii	shall	The median shall be used if the number of observations is greater than or equal to ten.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3aiii	shall	Values reported as less than the reported analytical detection level shall be replaced with one-half of the applied detection level in the calculation of the mean or median.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3aiii	shall	If the analytical detection level for a pollutant is not reported and is not available, the analytical detection level for the most sensitive analytical method approved under 40 C.F.R. 136, or other analytical method detection level deemed acceptable by the director, shall be used.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3bi	shall	Zero shall be used as the background water quality if default mixing assumptions are being applied and if the pollutant is not reasonably suspected of causing or contributing to the impairment or threatening of the designated use in the receiving water.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3bii	shall	One-half of the reported analytical detection level for the pollutant or one-half of the lowest water quality criteria, whichever is lower, shall be used as the background water quality if the pollutant is reasonably suspected of causing or contributing to the impairment or threatening of the designated use in the receiving water.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3biia	shall	The pollutant shall be quantified through additional monitoring of background water quality with more sensitive analytical methods.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3biib	shall	The pollutant shall be quantified by another method, such as caged fish or native fish data.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3c	shall	If no representative ambient data are available, data considered by the director to be representative of the natural background conditions for that receiving water shall be used.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3c	shall	Such data shall be evaluated in accordance with paragraphs (A)(3)(a) and (A)(3)(b) of this rule	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3d	shall	If no representative ambient data are available and there is no other representative information available, background water quality shall be determined using the procedures in paragraph (A)(3)(b) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A3d	shall	Any study designed to increase the effluent mixing levels established in paragraph (A)(2) of this rule shall include determination of background water quality.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	
3745-2-05	A4	shall	Effluent design flow. The effluent design flow used in the WLAs shall be any of the following:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A4a	shall	In such a case, the effluent flow shall represent a reasonable estimate of the projected flow for the POTW during the applicable permit period.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A4b	shall	This flow shall represent a reasonable measure of actual production, projected to occur during the next NPDES permit period.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A5	shall not	WLA results shall not exceed the inside mixing zone maximum (IMZM) unless a mixing demonstration is completed in accordance with rule 3745-1-06 of the Administrative Code that justifies an alternate value.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes

3745-2-05	A6	shall	If the background water quality exceeds an applicable average criterion, the WLA for that criterion shall equal the applicable average criterion.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A7	shall	If the background water quality exceeds the maximum criterion, the WLA for that criterion shall equal the maximum criterion.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A9	shall	When determining a WLA for multiple discharges, the stream/discharge flow ratio shall be calculated as the total flow at the end of the modeled segment under 7Q10 design conditions minus all effluent flow, divided by the total effluent flow to the segment.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A9	shall	This SDR shall then be used to calculate the applicable percentage of stream design flow, using the equation listed in paragraph (A)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	A9	shall	The same percentage of stream design flow shall be used for each discharge in the segment.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	B1	shall	WLAs to maintain average criteria for direct discharges to non-flowing receiving waters shall be determined using the following equation:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	B2a	shall	No new discharges of BCCs shall be allowed a mixing zone after December 30, 2002.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	B2b	shall	For existing discharges of BCCs, mixing zones shall be phased out.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	B2b	shall	No mixing zone shall be available after November 15, 2010, unless the discharger demonstrates to the satisfaction of the director, that a mixing zone is necessary for technical, economic, or water conservation reasons.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-05	B3	shall	WLAs for the maximum criteria shall be set equal to the IMZM.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	B3	shall not	WLA results shall not exceed the IMZM unless a mixing demonstration is completed in accordance with rule 3745-1-06 of the Administrative Code that justifies an alternate value.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-05	B4	shall	If the background water quality exceeds an applicable average criterion, the WLA for that criterion shall equal the applicable average criterion.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-06	A2	shall	A water quality-based effluent limitation (WQBEL) or monitoring requirement for a pollutant shall be determined by the reasonable potential of that pollutant to cause or contribute to an excursion of any applicable water quality standard established in or developed under Chapter 3745-1 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	A3	shall	Except as provided in paragraph (C) of this rule and paragraph (A) of rule 3745-33-07 of the Administrative Code, the determination of reasonable potential shall be based on the comparison of the average or the maximum projected effluent quality (PEQ) to the average or the maximum PEL, respectively, and on other site-specific factors in accordance with paragraph (B) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	A3	shall	Final permit conditions shall be established by Ohio EPA in accordance with rule 3745-33-07 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B1	shall	WQBELs shall be recommended for any group five pollutant.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B1	shall	A pollutant shall be assigned to group five if any of the following conditions apply:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B1bia	shall	If multiple discharges were included in determination of the PEL, the load associated with the PEL for each upstream discharge shall also be added.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B1bia	shall	Other upstream pollutant loads included in determination of the PEL shall also be included.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B1bib	shall	If other upstream pollutant sources were included in determination of the PEL, the flows applied to those sources in determination of the PEL shall also be included.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B2	shall	A monitoring requirement shall be recommended for any group four pollutant.	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B2	shall	A pollutant shall be assigned to group four if any of the following conditions apply:	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B3	shall	A tracking requirement in accordance with rule 3745-33-07 of the Administrative Code shall be recommended for any pollutant for which the average PEQ is more than seventy-five per cent of the average PEL or the maximum PEQ is more than seventy-five per cent of the maximum PEL and paragraph (B)(2) of this rule applies.	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B4	shall	A monitoring requirement evaluation shall be recommended for any group three pollutant.	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B4	shall	A pollutant shall be assigned to group three if the average PEQ is less than fifty per cent of the average PEL and the maximum PEQ is less than fifty per cent of the maximum PEL and paragraph (B)(5) of this rule does not apply.	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B5	shall not	A monitoring requirement shall not be recommended for any group two pollutant.	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes

3745-2-06	B5	shall	A pollutant shall be assigned to group two if a WLA was not required for one of the following reasons:	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B6	shall	A pollutant shall be assigned to group one if a WLA could not be calculated because available data is insufficient to develop numeric criteria.	6111.03, 6111.12	General	40 CFR 122.44(d)	yes	no	yes
3745-2-06	B6a	shall	Ohio EPA shall generate or require the discharger to generate the data necessary to derive numeric criteria under the following conditions	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B6ai	shall	If the maximum PEQ is greater than or equal to the WLA based on the ambient screening value to protect aquatic life from acute effects, data shall be generated to derive an acute aquatic life criterion for that pollutant	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B6aii	shall	If the average PEQ is greater than or equal to the WLA based on the ambient screening value to protect aquatic life from chronic effects, data shall be generated to derive a chronic aquatic life criterion for that pollutant.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B6aiii	shall	If the average PEQ is greater than or equal to the WLA based on the ambient screening value to protect humans from health effects other than cancer, data shall be generated to derive a human health criterion for that pollutant.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B6b	shall	After data has been generated, as required by paragraph (B)(6)(a) of this rule, Ohio EPA shall develop numeric criteria for that pollutant in accordance with Chapter 3745-1 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B6b	shall	Ohio EPA shall then reevaluate WLAs for that pollutant in accordance with Chapter 3745-2 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	B6c	shall	Ohio EPA shall establish any requirements for the discharger to collect the data required by paragraph (B)(6)(a) of this rule in the discharger's permit, in accordance with Chapter 3745-33 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	C	shall	The determination of reasonable potential of intake pollutants shall be made on a pollutant-specific and an outfall-specific basis.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	C3	shall not	the director shall not be required to include a WQBEL for the identified intake pollutants in the discharger's NPDES permit, provided the following:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	C4	shall	the director shall use the procedures set forth in paragraphs (A) and (B) of this rule to determine the reasonable potential of that pollutant.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	C7	shall not	Such a pollutant shall not be considered to be from the same body of water if the groundwater contains the pollutant partially or entirely due to human activity, such as industrial, commercial, or municipal operations, disposal actions, or treatment process.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-06	D	shall	In the lake Erie drainage basin, if the geometric mean of a pollutant in fish tissue samples collected from a waterbody exceeds the tissue basis of a tier I criterion or tier II value, after consideration of the variability of the pollutant's bioconcentration and bioaccumulation in fish, each facility that discharges detectable levels of such pollutant to that water has the reasonable potential to cause or contribute to an excursion above a tier I criteria or a tier II value and the director shall establish a WQBEL for such pollutant in the NPDES permit for such facility.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	A1	shall	The incremental risk of each known or suspected carcinogen present in a discharge shall be considered additive in accordance with this rule.	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	A2	shall	Except as provided in paragraphs (A)(3) and (A)(4) of this rule, the following equation shall be used to protect against additive effects associated with simultaneous human exposure to multiple chemicals:	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	A3	shall	If the discharger demonstrates to the director's satisfaction that the carcinogenic risk is not additive for a pollutant, the director shall exclude that pollutant from paragraph (A)(2) of this rule.	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	A5	shall	Carcinogens shall be considered to be conservative pollutants in the absence of other information.	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	B1	shall not	Noncarcinogenic effects of individual pollutants shall not be considered to be additive unless available scientific information supports a reasonable assumption that the pollutants produce additive effects through the same mechanism of action.	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	B2	shall	For noncarcinogens that have human health effects that have been shown by scientific evidence to be additive, the following equation shall be used to protect against additive effects associated with simultaneous human exposure to multiple chemicals	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	C1	shall	For discharges containing one or more 2, 3, 7, 8-substituted chlorinated dibenzo-p-dioxins or 2, 3, 7, 8-substituted dibenzofurans, the 2, 3, 7, 8-TCDD toxicity equivalence concentration (TEC _{TCDD}) shall be determined.	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes

3745-2-07	C2	shall	The values listed in table 1 of this rule shall be used to determine the TECTcdd using the following equation:	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-07	C3	shall	The TECTcdd concentration of a discharge shall be considered as one pollutant for purposes of the equation in paragraph (A)(2) of this rule (if carcinogenic) or paragraph (B)(2) of this rule (if noncarcinogenic).	6111.03, 6111.12	Federal, General	40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	A	shall	For discharges of whole effluent toxicity (WET) to flowing receiving waters, the WQBEL for WET shall be calculated using the following mass balance equation:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	B	shall	Background water quality for WET calculations shall be determined using the following requirements.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	B2	shall	To establish background levels of acute toxicity, Ohio EPA shall consider the likelihood for acute toxicity to exist in the background waters of the discharge using available information on the following factors:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	B3	shall	After an analysis of the likelihood for acute toxicity to exist in the background waters of the discharge, background toxicity shall be set equal to one of the following values:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	C	shall not	Wasteload allocation (WLA) results for acute toxicity shall not exceed 1.0 TUA unless the provisions in paragraph (B) of rule 3745-33-07 of the Administrative Code are met.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	D	shall	When the director determines that it is necessary to consider multiple discharges in a WLA, the procedures defined in paragraph (A)(8) of rule 3745-2-05 of the Administrative Code shall be followed.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	E1	shall	WLAs to maintain chronic toxicity levels for direct discharges to non-flowing receiving waters shall be determined using the following equation:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	E2	shall	WLAs for acute levels shall be set equal to 1.0 TUA.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	E3	shall not	Allocation results for acute toxicity shall not exceed 1.0 TUA unless the provisions in paragraph (B) of rule 3745-33-07 of the Administrative Code are met.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-09	B3c	require	If background toxicity is due to an identifiable discharge that has not yet achieved toxicity limits required by paragraph (B) of rule 3745-33-07 of the Administrative Code, use 0.0 TUA.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d) and 40 CFR 132 Appendix F	yes	yes	yes
3745-2-10	A	shall	For discharges of ammonia-nitrogen (NH3-N) to flowing receiving waters, the wasteload allocation (WLA) shall be calculated using the following mass balance equation:	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	B	shall	The following stream design flows shall be used to determine WLAs to maintain water quality criteria for NH3-N toxicity.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	C	shall	The WLAs shall use the per cent of stream design flow contained in paragraphs (A)(2)(a) to (A)(2)(c) of rule 3745-2-05 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	C	shall	Stream design flows for such impacted stream segments shall be established at levels that ensure protection of designated uses.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	D	shall	WLAs to maintain the acute criteria shall be required for streams designated as limited resource water in Chapter 3745-1 of the Administrative Code, or for other streams for which the limited resource water criteria are applicable.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	E	shall	Exception for direct discharges to lake Erie. If it is necessary to determine a WLA for a direct discharge to lake Erie, the mixing assumptions contained in rule 3745-2-05 of the Administrative Code shall be used.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	F	shall	Exception for direct discharges to the Ohio river. If it is necessary to determine a WLA for a direct discharge to the Ohio river, the mixing assumptions contained in rule 3745-2-05 of the Administrative Code shall be used.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	G	shall	This WLA shall be developed pursuant to rule 3745-2-05 of the Administrative Code.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-10	D	require	WLAs to maintain the acute criteria shall be required for streams designated as limited resource water in Chapter 3745-1 of the Administrative Code, or for other streams for which the limited resource water criteria are applicable.	6111.03, 6111.12	Federal, General	40 CFR 122.44(d)	yes	yes	yes
3745-2-12	A1	shall	At a minimum, total maximum daily loads (TMDLs) shall be established in accordance with the listing and priority setting process established in Section 303(d) of the act and 40 C.F.R. 130.7.	6111.03, 6111.12, 6111.563	Federal	40 CFR 130.7	yes	yes	yes

3745-2-12	A2	shall	The director shall do the following for stakeholder involvement during TMDL development in accordance with section 6111.562 of the Revised Code:	6111.03, 6111.12, 6111.562	state/federal	40 CFR 130.7	yes	yes	yes
3745-2-12	A3	shall	Official draft TMDL. The director shall prepare an official draft TMDL prior to establishing a final TMDL, as follows:	6111.03, 6111.12, 6111.563	state/federal	40 CFR 130.7	yes	yes	yes
3745-2-12	A3a	shall	The official draft TMDL shall include both of the following:	6111.03, 6111.12, 6111.563	state/federal	40 CFR 130.7	yes	yes	yes
3745-2-12	A3b	shall	The director shall provide public notice of the official draft TMDL in accordance with rule 3745-49-07 of the Administrative Code.	6111.03, 6111.12, 6111.563	state/federal	40 CFR 130.7	yes	yes	yes
3745-2-12	A3b	shall	In addition to the information required by rule 3745-49-08 of the Administrative Code, the public notice shall specify both of the following:	6111.03, 6111.12, 6111.563	state/federal	40 CFR 130.7	yes	yes	yes
3745-2-12	A3c	shall	The director shall send the public notice to the following stakeholders:	6111.03, 6111.12, 6111.563	state		yes	yes	yes
3745-2-12	A3d	shall	The director shall allow not less than sixty days for comment on the official draft TMDL.	6111.03, 6111.12, 6111.563	state		yes	yes	yes
3745-2-12	A3e	shall	The director shall provide an opportunity for public hearing regarding the official draft TMDL if there is significant public interest.	6111.03, 6111.12, 6111.563	state		yes	yes	yes
3745-2-12	A3e	shall	Requests shall state the nature of issues proposed to be raised at the hearing.	6111.03, 6111.12, 6111.563	general authority		yes	no	yes
3745-2-12	A3f	shall	The director shall prepare and make available a written responsiveness summary of the comments received during the applicable comment period on the official draft TMDL.	6111.03, 6111.12, 6111.563	state		yes	yes	yes
3745-2-12	A4	shall	Final TMDL. After completion of the items in paragraph (A)(3) of this rule if the director determines it is appropriate to complete the TMDL, the director shall establish a final TMDL and submit the final TMDL to U.S. EPA for approval.	6111.03, 6111.12, 6111.563	state/federal	40 CFR 130.7	yes	yes	yes
3745-2-12	B1	shall	At a minimum, the following factors shall be considered when determining an assessment area for a TMDL:	6111.03, 6111.12, 6111.562	state		yes	yes	yes
3745-2-12	B2	shall	A TMDL shall be determined as the sum of all existing or projected loads of a pollutant to the TMDL assessment area from point sources, nonpoint sources and background sources.	6111.03, 6111.12, 6111.563	state/federal	40 CFR 130.2	yes	yes	yes
3745-2-12	B2	shall not	The sum of the loads shall not be greater than the loading capacity of the receiving water for the pollutant minus a specified margin of safety (MOS) and any capacity reserved for future growth.	6111.03, 6111.12, 6111.561	federal	40 CFR 130.7	yes	yes	yes
3745-2-12	B3	shall	The background concentration of a pollutant for the purpose of establishing a TMDL shall be determined in accordance with rule 3745-2-05 of the Administrative Code.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	B4	shall	The loading capacity for the purpose of establishing a TMDL shall be determined as the largest load of a pollutant that a water body can receive without violating water quality standards at any applicable site within the TMDL implementation plan assessment area (outside of applicable mixing zones).	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	B4	shall	Pollutant loads for sources which only affect the receiving water at certain flow conditions shall be determined to maintain only the loading capacities applicable at those conditions.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	B5	shall	Each TMDL shall include a MOS sufficient to account for technical uncertainties in establishing the TMDL.	6111.03, 6111.12, 6111.561	state/federal	40 CFR 130.07	yes	yes	yes
3745-2-12	B5	shall	The TMDL implementation plan shall describe the manner in which the MOS is determined and incorporated into the TMDL.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	B6	shall not	Where adequate reserved allocations are not included in a TMDL, any increased loadings of the pollutant for which the TMDL was developed that are due to a new or expanded discharge shall not be allowed unless the TMDL is revised in accordance with this rule and section 6111.563 of the Revised Code to include an allocation for the new or expanded discharge.	6111.03, 6111.12, 6111.561	state/federal	40 CFR 131.12	yes	yes	yes
3745-2-12	B7	shall	Where appropriate and where sufficient data are available, TMDLs shall reflect contributions to the water column from sediments inside and outside of any applicable mixing zones.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	B7	shall	TMDLs shall be sufficiently stringent so as to prevent accumulation of the pollutant of concern in sediments to levels injurious to designated or existing uses, human health, wildlife and aquatic life criteria.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	B8	shall	TMDLs shall be based on the assumption that a pollutant does not degrade.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	B9	shall	TMDLs for metals shall be determined based on the total recoverable form of that metal provided by all sources considered in that TMDL.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix A	yes	yes	yes

3745-2-12	B9	shall	The loading capacity for that TMDL shall be determined to maintain the total recoverable criteria applicable to that metal, with the following exceptions:	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix A	yes	yes	yes
3745-2-12	B10	shall	TMDLs shall reflect, where appropriate and where sufficient data are available, point source and nonpoint source pollutant loads resulting from wet weather events.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	B11	shall	In addition to the requirements of paragraphs (B)(1) to (B)(10) of this rule, the director shall consider and evaluate the factors in divisions (B) and (C) of section 6111.562 of the Revised Code.	6111.03, 6111.12, 6111.562	state		yes	yes	yes
3745-2-12	C1	shall	For the purpose of establishing a TMDL, LAs shall be based on at least the following information:	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	C2	shall	For LAs established on the basis of paragraph (C)(1)(c) of this rule, monitoring data shall be collected and analyzed in order to validate the TMDL's assumptions,	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	C3	shall	LAs established in a TMDL shall be determined in accordance with rule 3745-2-05 of the Administrative Code such that water quality criteria are maintained at the design conditions.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	D	shall	Pollutant loads allocated to point sources in a TMDL shall be used to determine WLAs for those point sources.	6111.03, 6111.12, 6111.561	federal	40 CFR 132.2 and Appendix F	yes	yes	yes
3745-2-12	D1	shall	If TMDLs are established in TMDL implementation plans for different segments of the same watershed and include allocations for the same pollutant for the same point source, then WLAs for that pollutant and point source shall be consistent with the most stringent of those allocations.	6111.03, 6111.12, 6111.561	federal	40 CFR 132, Appendix F	yes	yes	yes
3745-2-12	D2	shall	For point sources considered in a TMDL that discharge at stream flows at or below the stream design flows applicable under rule 3745-2-05 of the Administrative Code, WLAs shall be determined in accordance with rule 3745-2-05 of the Administrative Code such that water quality criteria are maintained at the design conditions.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	D4	shall	WLAs determined as part of a TMDL shall be used to determine WQBELs for that discharge in accordance with rule 3745-2-06 of the Administrative Code.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	E1	shall	TMDLs shall be established and implemented through a TMDL implementation plan	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	E1	shall	An implementation plan shall address attainment of applicable water quality standards, determined in accordance with rule 3745-2-04 of the Administrative Code (or as otherwise applicable in accordance with Chapter 3745-1 of the Administrative Code) for each pollutant for which a TMDL is established.	6111.03, 6111.12, 6111.561	federal	40 CFR 130.7	yes	yes	yes
3745-2-12	E3	shall	Where implementing a TMDL implementation plan will not immediately attain water quality standards, the TMDL implementation plan shall reflect reasonable assurances that water quality standards will be attained in a reasonable period of time.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	E3	shall	At a minimum, the following factors shall be considered by Ohio EPA in determining the reasonable period of time in which water quality standards will be met:	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes
3745-2-12	F	shall	All public records created in the development of the TMDL shall be made available upon request in accordance with section 149.43 of the Revised Code.	6111.03, 6111.12, 6111.563	general authority		yes	yes	yes
3745-2-12	A2b	require	Provide notice as required in paragraph (A)(2)(a) of this rule to the following stakeholders:	6111.03, 6111.12, 6111.562	state authority		yes	yes	yes
3745-2-12	A2c	require	Allow not less than thirty days for input at each stage required in paragraph (A)(2)(a) of this rule.	6111.03, 6111.12, 6111.562	state		yes	yes	yes
3745-2-12	A3b	require	In addition to the information required by rule 3745-49-08 of the Administrative Code, the public notice shall specify both of the following:	6111.03, 6111.12, 6111.563	state		yes	yes	yes
3745-2-12	A5	require	A modification, other than a modification to a draft or final TMDL consistent with comments received, is subject to the requirements in paragraph (A)(3) of this rule.	6111.03, 6111.12, 6111.563			yes		yes
3745-2-12	A6	require	Where a TMDL is not required by paragraph (A)(1) of this rule or it is not technically feasible to complete development of a TMDL prior to NPDES permit issuance or renewal deadlines for a discharge to a TMDL assessment area	6111.03, 6111.12, 6111.563	federal	40 CFR 122.44	yes	yes	yes
3745-2-12	B1j	require	Coordination with other Ohio EPA programs and program requirements.	6111.03, 6111.12, 6111.563			yes		yes
3745-2-12	B11	require	In addition to the requirements of paragraphs (B)(1) to (B)(10) of this rule, the director shall consider and evaluate the factors in divisions (B) and (C) of section 6111.562 of the Revised Code.	6111.03, 6111.12, 6111.563			yes		yes
3745-2-12	E2	require	Where an assessment and remediation plan meets the requirements of this rule and the public participation requirements applicable to TMDLs, Ohio EPA may use the assessment and remediation plan in lieu of a TMDL implementation plan.	6111.03, 6111.12, 6111.563			yes		yes

3745-2-12	E2	require	Any part of an assessment and remediation plan that satisfies one or more requirements under Section 303(d) of the act or the act's implementing regulations may be part of a TMDL implementation plan.	6111.03, 6111.12, 6111.563			yes		yes
3745-2-12	E3e	require	Other requirements for attainment of water quality standards.	6111.03, 6111.12, 6111.563			yes		yes
3745-2-12	B3	may not	The director may apply alternative procedures to determine background concentrations if necessary to account for all conditions considered in the TMDL, including, but not limited to, cases where background concentrations vary substantially with flow such that a background concentration derived in accordance with rule 3745-2-05 of the Administrative code may not be appropriate.	6111.03, 6111.12, 6111.561	federal	40 CFR 132 Appendix F	yes	yes	yes

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-3-01	N4b	require	The industrial user annually submits the certification statement required in paragraph (I) of rule 3745-3-06 of the Administrative Code together with any additional information necessary to support the certification statement.	6111.042, 6111.03(P)	federal required	40 CFR 403.3 (v)(2)	yes	yes	no
3745-3-01	P7	prohibit	The reduction or alteration may be obtained by physical, chemical or biological treatment processes, by BMPs, by pollution prevention alternatives including process changes, material substitutions, improved operating practices and recycling, or by other means, except as prohibited by paragraph (E) of rule 3745-3-09 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.3 (s)	yes	yes	no
3745-3-01	P9b	prohibit	Prohibited discharges established pursuant to rule 3745-3-04 of the Administrative Code.	6111.042, 6111.03(P)	Federal required	40 CFR 403.3 (l)	yes	yes	no
3745-3-02	D	shall	In accordance with section 6111.032 of the Revised Code, nothing in this chapter shall be interpreted to prevent the director or a POTW from imposing additional or more stringent requirements or standards on any industrial user pursuant to applicable provisions of law.	6111.042, 6111.03(P)	federal and state required	40 CFR 403.4 and ORC 6111.032	yes	yes	yes
3745-3-02	D	shall	All local laws, regulations, and ordinances shall apply as long as these requirements are as stringent as, or more stringent than, any requirement set forth in this chapter.	6111.042, 6111.03(P)	federal required	40 CFR 403.4	yes	yes	no
3745-3-03	A	shall	Any POTW or a combination of POTWs operated by the same public authority shall establish, administer, and enforce a pretreatment program in accordance with 40 C.F.R. 403 and this rule if Ohio EPA does not exercise the option to assume local responsibilities as the control authority where any of the following apply	6111.042, 6111.03(P)	federal required	40 CFR 403.8(a)	yes	yes	no
3745-3-03	A2	shall	The director shall consider and base the determination on any of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(a)	yes	yes	yes
3745-3-03	B	shall	POTWs identified as being required to develop a POTW pretreatment program under paragraph (A) of this rule shall develop and submit such a program for approval as soon as possible, but in no case later than one year after written notification from the director of such identification.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(b)	yes	yes	no
3745-3-03	B	shall	The POTW pretreatment program shall meet the criteria set forth in paragraph (C) of this rule and shall be administered by the POTW to ensure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(b)	yes	yes	no
3745-3-03	B	shall	The POTW pretreatment program shall meet the criteria set forth in paragraph (C) of this rule and shall be administered by the POTW to ensure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(b)	yes	yes	no
3745-3-03	C	shall	A POTW pretreatment program shall be based on the following legal authority and include all of the following procedures.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)	yes	yes	no
3745-3-03	C	shall	These authorities and procedures shall at all times be fully and effectively exercised and implemented.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)	yes	yes	no
3745-3-03	C1	shall	The POTW shall operate pursuant to legal authority, enforceable in federal, state, or local courts, that authorizes or enables the POTW to enforce the requirements of sections 307(b), 307(c) and 402(b)(8) of the act and any regulation implementing those sections.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)	yes	yes	no
3745-3-03	C1	shall	At a minimum, this legal authority shall enable the POTW to take all of the following actions:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)	yes	yes	no
3745-3-03	C1c	shall	In the case of industrial users identified as significant under paragraph (S) of rule 3745-3-01 of the Administrative Code, this control shall be achieved through individual or general control mechanisms issued to each such user or group of users.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)	yes	yes	no
3745-3-03	C1c	shall	Both individual and general control mechanisms shall be enforceable and, at a minimum, shall include all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(B)	yes	yes	no
3745-3-03	C1c	shall	Both individual and general control mechanisms shall be enforceable and, at a minimum, shall include all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(B)	yes	yes	no
3745-3-03	C1dii	shall	The industrial user shall submit a new request for the waiver before the waiver can be granted for each subsequent control mechanism.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(ii)	yes	yes	no
3745-3-03	C1diii	shall	In making a demonstration that a pollutant is not present, the industrial user shall provide data from at least one sampling of the facility's process wastewater prior to any treatment present at the facility that is representative of all wastewater from all processes.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(iii)	yes	yes	no
3745-3-03	C1diii	shall	The request for a monitoring waiver shall be signed in accordance with paragraph (F) of rule 3745-3-06 of the Administrative Code, and include the certification statement in paragraph (F)(1) of rule 3745-3-06 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(iii)	yes	yes	no
3745-3-03	C1div	shall	The POTW shall include any monitoring waiver as a condition in the industrial user's control mechanism.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(iv)	yes	yes	no
3745-3-03	C1div	shall	However, the control mechanism shall still contain a monitoring schedule for the situation described in paragraph (C)(1)(d)(vii) of this rule.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	C1dv	shall	The reasons supporting any monitoring waiver and any information submitted by the user in the request for the waiver shall be maintained by the POTW for three years after expiration of the waiver.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(iv)	yes	yes	no

3745-3-03	C1dvi	shall	Upon approval of the monitoring waiver and revision of the industrial user's control mechanism by the POTW, the industrial user shall certify on each periodic compliance monitoring report required by paragraph (E)(1) of rule 3745-3-06 of the Administrative Code with the following statement	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(v)	yes	yes	no
3745-3-03	C1dvii	shall	The POTW shall include provisions within the control mechanism which addresses a situation where a waived pollutant is found to be present or is expected to be present based on changes that occur in the industrial user's operations.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	C1dvii	shall	In this situation, the user shall be required to immediately meet both of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(vi)	yes	yes	no
3745-3-03	C1g	shall	Representatives of the POTW shall be authorized to enter any premises of any industrial user in which a discharge source or treatment system is located or in which records are required to be kept under paragraphs (J) to (M) of rule 3745-3-06 of the Administrative Code to assure compliance with pretreatment standards.	6111.042, 6111.03(P)	federal required and state required	40 CFR 403.8(f)(1)(v)	yes	yes	no
3745-3-03	C1g	shall	Such authority shall be at least as extensive as the authority provided under section 6111.05 of the Revised Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(v)	yes	yes	no
3745-3-03	C1h	shall	Remedies shall include but are not limited to the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vi)	yes	yes	no
3745-3-03	C1hi	shall	The POTW shall be able to seek injunctive relief for noncompliance by industrial users with pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vi)(A)	yes	yes	no
3745-3-03	C1hi	shall	. The POTW shall also have authority to seek or assess civil or criminal penalties in at least the amount of one thousand dollars per day for each violation by industrial users of pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vi)(A)	yes	yes	no
3745-3-03	C1hii	shall	The POTW shall have authority and procedures, after informal notice to the discharger, immediately and effectively to halt or prevent any discharge of pollutants to the POTW that reasonably appears to present an imminent endangerment to the health or welfare of persons.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vi)(B)	yes	yes	no
3745-3-03	C1hiii	shall	The POTW shall also have authority and procedures, that shall include notice to the affected industrial users and an opportunity to respond, to halt or prevent any discharge to the POTW that presents or may present an endangerment to the environment or that threatens to interfere with the operation of the POTW.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vi)(B)	yes	yes	no
3745-3-03	C1hiii	shall	The POTW shall also have authority and procedures, that shall include notice to the affected industrial users and an opportunity to respond, to halt or prevent any discharge to the POTW that presents or may present an endangerment to the environment or that threatens to interfere with the operation of the POTW.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vi)(B)	yes	yes	no
3745-3-03	C2	shall	The POTW shall develop and implement procedures to ensure compliance with the requirements of a pretreatment program.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)	yes	yes	no
3745-3-03	C2	shall	At a minimum, these procedures shall enable the POTW to do all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)	yes	yes	no
3745-3-03	C2a	shall	Any compilation, index or inventory of industrial users made under this paragraph shall be made available to the director upon request.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(i)	yes	yes	no
3745-3-03	C2b	shall	This information shall be made available to the director upon request.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(ii)	yes	yes	no
3745-3-03	C2ei	shall	Where the POTW has authorized the industrial user subject to a categorical pretreatment standard to forgo sampling of a pollutant regulated by a categorical pretreatment standard in accordance with paragraph (C)(1)(d) of this rule, the POTW shall sample for the waived pollutant or pollutants at least once during the term of the categorical industrial user's control mechanism.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(v)(A)	yes	yes	no
3745-3-03	C2ei	shall	In the event that the POTW subsequently determines that a waived pollutant is present or is expected to be present in the industrial user's wastewater based on changes that occur in the user's operations, the POTW shall immediately begin inspecting the user and monitoring the user's discharge at the frequency set by the POTW's pretreatment program.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(v)(A)	yes	yes	no
3745-3-03	C2eii	shall	Where the POTW has determined that an industrial user meets the criteria for a non-significant categorical industrial user, the POTW shall evaluate and document, at least once per year, whether the industrial user continues to meet the definition in paragraph (N) of rule 3745-3-01 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(v)(B)	yes	yes	no
3745-3-03	C2eiii	shall	In the case of mid-tier industrial users subject to reduced reporting requirements under paragraph (E)(2) of rule 3745-3-06 of the Administrative Code, the POTW shall conduct inspections and randomly sample and analyze the effluent from such users at least once every two years.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(v)(C)	yes	yes	no
3745-3-03	C2eiii	shall	If the industrial user no longer meets the definition in paragraph (M) of rule 3745-3-01 of the Administrative Code, the POTW shall immediately begin inspecting the industrial user and monitoring the effluent from the user at the frequency set by the POTW's pretreatment program.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(v)(C)	yes	yes	no
3745-3-03	C2f	shall	Additional significant industrial users shall be evaluated within one year of being identified as a significant industrial user.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(vi)	yes	yes	no
3745-3-03	C2f	shall	The results of slug discharges shall be made available to the director upon request.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(vi)	yes	yes	no
3745-3-03	C2f	shall	If the POTW or Ohio EPA decides that a slug control plan is needed, the plan shall contain, at a minimum, all of the following elements:	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(vi)	yes	yes	no

3745-3-03	C2g	shall	Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(vii)	yes	yes	no
3745-3-03	C2h	shall	These procedures shall include provision for at least annual public notification, in at least one newspaper of general circulation that provides meaningful public notice within the jurisdiction served by the POTW, of industrial users that, at any time during the previous twelve months, were in significant noncompliance with applicable pretreatment standards or other pretreatment requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(2)(viii)	yes	yes	no
3745-3-03	C3	shall	The POTW shall have sufficient resources and qualified personnel to carry out the authorities and procedures described in paragraphs (C)(1) and (C)(2) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(3)	yes	yes	no
3745-3-03	C4	shall	The POTW shall develop, update as necessary and enforce technically supported local limits that will protect the POTW against interference and pass through.	6111.042, 6111.03(P)	federal required	40 CFR 403.8 (f)(4)	yes	yes	no
3745-3-03	C4	shall	. The POTW may develop BMPs and such BMPs shall be considered local limits and pretreatment standards for the purpose of this rule upon approval by Ohio EPA.	6111.042, 6111.03(P)	federal required	40 CFR 403.5(c)(4)	yes	yes	no
3745-3-03	C5	shall	The POTW shall develop and implement an enforcement response plan.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(5)	yes	yes	no
3745-3-03	C5	shall	This plan shall contain detailed procedures indicating how a POTW will investigate and respond to instances of industrial user noncompliance.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(5)	yes	yes	no
3745-3-03	C5	shall	The plan shall detail the following, at a minimum:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(5)	yes	yes	no
3745-3-03	C6	shall	The POTW shall prepare and maintain a list of the POTW's industrial users, as defined in rule 3745-3-01 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(6)	yes	yes	no
3745-3-03	C6	shall	The list shall conform to both of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(6)	yes	yes	no
3745-3-03	C6b	shall	Any modification to the list shall be submitted to the director in the POTW's annual report, pursuant to paragraph (J) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(6)	yes	yes	no
3745-3-03	C7a	shall	Each user in the group shall meet all of the following requirements:	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(A)(1)	yes	yes	no
3745-3-03	C7c	shall	The POTW shall retain a copy of the general control mechanism, documentation to support the POTW's determination that a specific significant industrial user meets the criteria in paragraphs (C)(7)(a)(i) to (C)(7)(a)(iv) of this rule, and a copy of the user's written request for coverage for three years after the expiration of the general control mechanism.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(A)(2)	yes	yes	no
3745-3-03	C7d	shall not	The POTW shall not control a significant industrial user through a general control mechanism where the user is subject to production-based categorical pretreatment standards or categorical pretreatment standards expressed as mass of pollutant discharged per day or for industrial users whose limits are based on the combined wastestream formula or net/gross calculations in 40 C.F.R. 403.6(e) and 40 C.F.R. 403.15.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(A)(2)	yes	yes	no
3745-3-03	C8	shall	The POTW shall maintain records of all information resulting from any monitoring activities, regardless of whether such monitoring activities were required by this chapter, including documentation associated with BMPs.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(2)	yes	yes	no
3745-3-03	C8	shall	Such records shall be retained for a minimum of three years and shall include the following for all samples:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(2)	yes	yes	no
3745-3-03	C8	shall	Such records shall be retained for a minimum of three years and shall include the following for all samples:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(1)	yes	yes	no
3745-3-03	C9	shall	In addition to the requirements in paragraph (C)(8) of this rule, the POTW shall retain all of the following for a minimum of three years:	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(o)(3)	yes	yes	no
3745-3-03	D1	shall	A POTW requesting approval of a POTW pretreatment program shall develop a program description that includes the information set forth in paragraph (D)(2) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.9(a)	yes	yes	no
3745-3-03	D1	shall	. This description shall be submitted to the director who will make a determination on the request for program approval in accordance with the procedures described in Chapters 3745. and 119. of the Revised Code, and Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.9(a)	yes	yes	no
3745-3-03	D2	shall	The program description shall contain, at a minimum, the following information:	6111.042, 6111.03(P)	federal required	40 CFR 403.9(b)	yes	yes	no
3745-3-03	D2a	shall	This statement shall identify all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.9(b)(1)	yes	yes	no
3745-3-03	D2b	shall	This submission shall include a statement reflecting the endorsement or approval of the local boards or bodies responsible for supervising and funding the POTW pretreatment program if approved.	6111.042, 6111.03(P)	federal required	40 CFR 403.9(b)(2)	yes	yes	no
3745-3-03	E1	shall	The POTW shall submit a pretreatment program modification request to the director for any modification to the POTW's pretreatment program at least forty-five days prior to when it is to be implemented by the POTW.	6111.042, 6111.03(P)	federal required	40 CFR 403.18 (c) and (d)	yes	yes	no
3745-3-03	E1a	shall	At a minimum, a pretreatment program modification request shall contain the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.18 (c)(1)	yes	yes	no
3745-3-03	E1b	shall	If the director determines that a modification is a substantial modification, then the POTW shall obtain the director's approval prior to the implementation of the modification.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(c)(2)	yes	yes	no
3745-3-03	E1b	shall	The director shall determine if a modification request is nonsubstantial or substantial based on the criteria in paragraph (E)(2) of this rule.	6111.042, 6111.03(P)	general authority		yes	no	yes

3745-3-03	E1b	shall	When approving or disapproving a modification request, the director shall follow the procedures in paragraphs (F) and (G) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(c)(2)	yes	no	yes
3745-3-03	F1	shall	The director shall approve or disapprove the modification based on the requirements in paragraph (C) of this rule, and using the procedures in Chapters 3745. and 119. of the Revised Code, and Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(c)(2)	yes	yes	yes
3745-3-03	F1	shall	The modification shall become effective upon approval by the director.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(c)(2)	yes	yes	no
3745-3-03	G1	shall	The POTW shall notify the director of any nonsubstantial modification at least forty-five days prior to implementation by the POTW in accordance with the provisions of paragraph (E)(1) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(d)(1)	yes	yes	no
3745-3-03	H	shall	All program modifications shall be incorporated into the POTW's NPDES permit or NPDES permits upon approval.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(e)	yes	yes	no
3745-3-03	I	shall	The director may revoke a POTW's pretreatment program prescribed under paragraphs (A) and (B) of this rule if the director determines that such a program is no longer necessary. Prior to revoking a program, the director shall consider and base the determination on all of the following:	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	J	shall	Any POTW that has a pretreatment program shall provide the director with a report that describes the POTW's program activities, including activities of all participating agencies if more than one jurisdiction is involved in the local program.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(i)	yes	yes	no
3745-3-03	J	shall	The report required by this paragraph shall be submitted to the director annually as specified in the POTW's NPDES permit.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(i)	yes	yes	no
3745-3-03	J	shall	The report shall contain such information as the director deems necessary.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(i)	yes	yes	no
3745-3-03	J1	shall	These reports shall be signed by a principal executive officer, ranking elected official or other duly authorized employee.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(m)	yes	yes	no
3745-3-03	J1	shall	The duly authorized employee shall be an individual or position having responsibility for the overall operation of the facility or the pretreatment program.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(m)	yes	yes	no
3745-3-03	J1	shall	This authorization shall be made in writing by the principal executive officer or ranking elected official, and submitted to the director prior to or together with the report being submitted.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(m)	yes	yes	no
3745-3-03	J2	shall	These reports shall be maintained in accordance with paragraphs (C)(8) to (C)(10) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(2)	yes	yes	no
3745-3-03	K	shall	) No POTW shall authorize or otherwise allow an industrial user to discharge pollutants to the POTW in violation of pretreatment standards established in this chapter.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	K	shall not	This provision shall not be interpreted to prevent a POTW from adopting or enforcing a pretreatment standard that is more stringent than provided in this chapter.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	L1	shall	In performing the review and final action on permits to install for indirect discharges by industrial users of the treatment works or sewerage system, the municipal corporation, county, or special district shall apply criteria and procedures specified by the director.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	L1	shall not	This provision shall not be interpreted to prevent a municipal corporation, county, or special district from applying criteria or procedures that are more stringent than specified by the director.	6111.042, 6111.03(P)	federal required	40 CFR 403.4	yes	no	no
3745-3-03	L2	shall	A municipal corporation, county, or special district that owns or operates a POTW or sewerage system that has an approved pretreatment program requesting authorization to review and take final action on industrial permits to install for indirect discharges by industrial users of the treatment works or sewerage system shall submit the request in accordance with the procedures described in paragraph (E) of this rule.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	L2	shall	Information to be submitted with the request shall be determined by the director.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	M	shall	POTWs administering an approved pretreatment program shall retain all records of pretreatment program modification requests, pretreatment program submissions, and control mechanisms and pollution prevention alternatives (i.e. slug control plan, toxic organic management plan) for as long as these documents are effective.	6111.042, 6111.03(P)	general authority and federal required	40 CFR 403.12 (o)	yes	no	no
3745-3-03	M	shall	Outdated versions of these documents shall be maintained for at least three years after the date on which the documents became ineffective.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	M	shall	The POTW shall make such records available for inspection and copying by the director.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	M	shall	The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the industrial user or the operation of the POTW pretreatment program or when requested by the director.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	B	require	POTWs identified as being required to develop a POTW pretreatment program under paragraph (A) of this rule shall develop and submit such a program for approval as soon as possible, but in no case later than one year after written notification from the director of such identification.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(b)	yes	yes	no
3745-3-03	C1b	require	Require compliance with applicable pretreatment standards and requirements by industrial users.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)	yes	yes	no
3745-3-03	C1dvi	require	Upon approval of the monitoring waiver and revision of the industrial user's control mechanism by the POTW, the industrial user shall certify on each periodic compliance monitoring report required by paragraph (E)(1) of rule 3745-3-06 of the Administrative Code with the following statement:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(v)	yes	yes	no
3745-3-03	C1dvii	require	In this situation, the user shall be required to immediately meet both of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(vi)	yes	yes	no

3745-3-03	C1dviib	require	Comply with the monitoring requirements specified in the POTW's pretreatment program and control mechanism, as required by paragraphs (C)(1)(c)(iv) and (C)(1)(d)(iv) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(vi)	yes	yes	no
3745-3-03	C1e	require	Require the development of a compliance schedule by each industrial user for the installation of technology required to meet applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iv)	yes	yes	no
3745-3-03	C1e	require	Require the development of a compliance schedule by each industrial user for the installation of technology required to meet applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iv)	yes	yes	no
3745-3-03	C1f	require	Require the submission of all notices and self-monitoring reports from industrial users as are necessary to assess and assure compliance by industrial users with pretreatment standards and requirements, including but not limited to the reports required in rule 3745-3-06 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iv)	yes	yes	no
3745-3-03	C1f	require	Require the submission of all notices and self-monitoring reports from industrial users as are necessary to assess and assure compliance by industrial users with pretreatment standards and requirements, including but not limited to the reports required in rule 3745-3-06 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iv)	yes	yes	no
3745-3-03	C1g	require	Representatives of the POTW shall be authorized to enter any premises of any industrial user in which a discharge source or treatment system is located or in which records are required to be kept under paragraphs (J) to (M) of rule 3745-3-06 of the Administrative Code to assure compliance with pretreatment standards.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(v)	yes	yes	no
3745-3-03	C2g	require	Investigate instances of noncompliance with pretreatment standards and requirements, as indicated in the reports and notices required under rule 3745-3-06 of the Administrative Code or indicated by analysis, inspection, and surveillance activities described in paragraph (C)(2)(e) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(vii)	yes	yes	no
3745-3-03	C2h	require	A POTW is not required to provide this public notice if there were no industrial users in significant noncompliance at any time during the previous twelve months.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	C2hvi	require	Failure to provide, within forty-five days after the due date, required reports such as baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports, reports on compliance with compliance schedules, or any other reports required by the control authority.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(2)(viii)	yes	yes	no
3745-3-03	C2hvi	require	Failure to provide, within forty-five days after the due date, required reports such as baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports, reports on compliance with compliance schedules, or any other reports required by the control authority.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	C7aiii	require	Require the same effluent limitations	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(A)(1)(iii)	yes	yes	no
3745-3-03	C7aiv	require	Require the same or similar monitoring.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(A)(1)(iv)	yes	yes	no
3745-3-03	C7b	require	To be covered by a general control mechanism, the significant industrial user shall be required to file a written request for coverage that identifies the user's contact information, the user's production processes, the types of wastes generated, the location for monitoring all wastes covered by the general control mechanism, any requests in accordance with paragraph (C)(1)(d) of this rule for a monitoring waiver for a pollutant neither present nor expected to be present in the discharge, and any other information the POTW deems appropriate.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(A)(2)	yes	yes	no
3745-3-03	C8	require	The POTW shall maintain records of all information resulting from any monitoring activities, regardless of whether such monitoring activities were required by this chapter, including documentation associated with BMPs.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)	yes	yes	no
3745-3-03	C10	require	A POTW that chooses to receive electronic documents is required to satisfy the requirements in 40 C.F.R. part 3	6111.042, 6111.03(P)	federal required	40 CFR 403.12(r)	yes	yes	no
3745-3-03	E2d	require	A decrease in the frequency of self-monitoring or reporting required of industrial users.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(b)(4)	yes	yes	no
3745-3-03	E2k	require	A request for this authorization is not required when implementing a monitoring waiver allowed by an applicable categorical pretreatment standard.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-03	F2	require	Notices required by 40 C.F.R. 403.11 may be performed by the POTW provided that the POTW notice otherwise satisfies the requirements of 40 C.F.R. 403.11.	6111.042, 6111.03(P)	federal required	40 CFR 403.18(c)(4)	yes	yes	no
3745-3-03	J	require	The report required by this paragraph shall be submitted to the director annually as specified in the POTW's NPDES permit.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(i)	yes	yes	no
3745-3-03	J3	require	The director may require, as an NPDES permit condition or otherwise, electronic submittal of these reports using information systems compatible with those of Ohio EPA.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(i)	yes	yes	no
3745-3-03	C1cv	may not	Such schedules may not extend the compliance date beyond applicable federal deadlines.	6111.042, 6111.03(P)	federal required	40 CFR 403.8(f)(1)(iii)(B)(5)	yes	yes	no

3745-3-04	A	shall not	Pollutants introduced into POTWs by an industrial user shall not pass through the POTW or interfere with the operation or performance of the POTW.	6111.042, 6111.03(P)	federal required	40 CFR 403.5(a)	yes	yes	no
3745-3-04	B	shall not	The following described substances shall not be introduced into a POTW:	6111.042, 6111.03(P)	federal required	40 CFR 403.5(b)	yes	yes	no
3745-3-04	C	shall	No industrial user shall discharge any pollutant in violation of applicable pretreatment standards.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-04	D	require	) In cases where pollutants contributed by an industrial user may result or have resulted in interference or pass through of the POTW and such violation is likely to recur, the director may require POTWs that are not required to develop a pretreatment program pursuant to paragraph (A) of rule 3745-3-03 of the Administrative Code, to develop and enforce BMPs and specific technically supported effluent limits for an industrial user, and all other users, as appropriate, that, together with appropriate changes in the POTW treatment plant's facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit, or sludge use or disposal practices.	6111.042, 6111.03(P)	federal required	40 CFR 403.5(c)(2)	yes	yes	no
3745-3-04	D	require	) In cases where pollutants contributed by an industrial user may result or have resulted in interference or pass through of the POTW and such violation is likely to recur, the director may require POTWs that are not required to develop a pretreatment program pursuant to paragraph (A) of rule 3745-3-03 of the Administrative Code, to develop and enforce BMPs and specific technically supported effluent limits for an industrial user, and all other users, as appropriate, that, together with appropriate changes in the POTW treatment plant's facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit, or sludge use or disposal practices.	6111.042, 6111.03(P)	federal required	40 CFR 403.5(c)(2)	yes	yes	no
3745-3-05	A	shall	All industrial users discharging to a POTW administering an approved pretreatment program shall notify the POTW immediately of all discharges that could cause problems to the POTW, including any slug loading, as defined in paragraph (S) of rule 3745-3-01 of the Administrative Code.	6111.042, 6111.03(P)	federal required	403.12(f)	yes	yes	no
3745-3-05	A	shall	The industrial user shall immediately notify the POTW upon discovery of any slug load by completing the following:	6111.042, 6111.03(P)	general authority/ federal required	40 CFR 403.12 (f)	yes	no	no
3745-3-05	A1	shall	If the discharge is to a POTW administering an approved POTW pretreatment program, the industrial user shall follow the notification procedure specified in the POTW's approved pretreatment program.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-05	A2	shall	If the discharge is to a POTW that is not administering an approved pretreatment program, the industrial user shall notify the POTW and Ohio EPA and provide all of the following information:	6111.042, 6111.03(P)	general authority/ federal required	40 CFR 403.16(c)(3) and 403.17 (c)(2)	yes	no	no
3745-3-05	A3	shall	Within five business days of the date that the slug load occurred, a written report containing the information required by paragraph (A)(2) of this rule shall be filed with the POTW.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.16(c)(3) and 403.17 (c)(2)	yes	yes	no
3745-3-05	A3	shall	If Ohio EPA is the control authority, the industrial user shall also submit this report to the appropriate district office of Ohio EPA within the same time period.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-05	C	shall	A significant industrial user determined by the control authority to need a slug control plan shall maintain posted signs in conspicuous places that are acceptable to the control authority, advising employees whom to call in the event of a slug load discharge.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-05	C	shall	The signs shall instruct all employees who may cause or discover such a discharge with respect to the notification procedure required by this rule.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-05	A3	require	Within five business days of the date that the slug load occurred, a written report containing the information required by paragraph (A)(2) of this rule shall be filed with the POTW.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-05	B	require	The control authority may require industrial users to develop a slug control plan, pursuant to paragraph (C)(2)(f) of rule 3745-3-03 of the Administrative Code.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-05	C	require	The signs shall instruct all employees who may cause or discover such a discharge with respect to the notification procedure required by this rule.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	B1	shall	The baseline report shall include the following contents, as applicable, and be submitted to the control authority by the corresponding deadline:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B1a	shall	Existing industrial users subject to such categorical standards and currently discharging to, or intending to discharge to a POTW shall submit to the control authority a baseline report which contains the information listed in paragraphs (C)(1) to (C)(8) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B1a	shall	The industrial user shall submit this information to the control authority within one hundred eighty days after the effective date of a categorical pretreatment standard, or one hundred eighty days after the final administrative decision made upon a category determination submission under paragraph (H) of rule 3745-3-09 of the Administrative Code, whichever is later.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B1b	shall	New sources, and sources that become industrial users subsequent to the promulgation of an applicable categorical standard, shall be required to submit to the control authority a report which contains the information listed in paragraphs (C)(1) to (C)(6) of this rule at least ninety days prior to commencement of discharge.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B1b	shall	New sources shall also be required to include in this report information on the method of pretreatment the source intends to use to meet applicable pretreatment standards.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no

3745-3-06	B1b	shall	New sources shall give estimates of the information requested in paragraphs (C)(4) and (C)(5) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B2	shall	Where the industrial user's categorical pretreatment standard has been modified by a removal allowance, fundamentally different factor variance, or the combined wastestream formula under paragraph (I)(1) of rule 3745-3-09 of the Administrative Code, at the time the user submits the baseline report the information required by paragraphs (C)(6) and (C)(7) of this rule shall pertain to the modified limits.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(7)(i)	yes	yes	no
3745-3-06	B3	shall	If the applicable categorical pretreatment standard is modified by a removal allowance, fundamentally different factor variance, or the combined wastestream formula under paragraph (I)(1) of rule 3745-3-09 of the Administrative Code after the user submits the baseline report, any necessary amendments to the information requested by paragraphs (C)(6) and (C)(7) of this rule shall be submitted by the user to the control authority within sixty days after the modified limit is approved.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(7)	yes	yes	no
3745-3-06	C	shall	The baseline report required by paragraph (B) of this rule shall contain all of the following information:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	C3	shall	This description shall include a schematic process diagram which indicates points of discharge to the POTW from the regulated processes.	6111.042, 6111.03(P)	federal required	40 cfr 403.12(b)(3)	yes	no	no
3745-3-06	C5a	shall	The user shall identify the pretreatment standards applicable to each regulated process.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(i)	yes	yes	no
3745-3-06	C5b	shall	The user shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the standard or control authority) of regulated pollutants in the discharge from each regulated process.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5b	shall	Both daily maximum and average concentration (or mass, where required) shall be reported.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5b	shall	The sample shall be representative of daily operations.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5b	shall	In cases where the standard requires compliance with a BMP or a pollution prevention alternative, the industrial user shall submit documentation as required by the control authority or the applicable standards to determine compliance with the standard.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5c	shall	The user shall take a minimum of one representative sample from each sampling location, as approved by the control authority, to comply with the requirements of this paragraph.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(b)(5)(iii)	yes	yes	no
3745-3-06	C5d	shall	Sampling and analyses shall be performed in accordance with paragraph (G) of this rule.	6111.042, 6111.03(P)	federally required	40 cfr 403.12 (g) and (b)	yes	no	no
3745-3-06	C5e	shall	The baseline report shall indicate the time, date and place, of sampling, and methods of analysis.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(vii)	yes	yes	no
3745-3-06	C8	shall not	The completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(7)	yes	yes	no
3745-3-06	C9	shall	The schedule required by paragraph (C)(8) of this rule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the industrial user to meet the applicable categorical pretreatment standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executive contract for major components, commencing construction, completing construction, etc).	6111.042, 6111.03(P)	federal required	40 CFR 403.12(c)(1)	yes	yes	no
3745-3-06	C9	shall	No increment shall exceed nine months.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(c)(2)	yes	yes	no
3745-3-06	C10	shall	Not later than fourteen days following each date in the schedule required by paragraph (C)(8) of this rule and the date for final compliance with the applicable categorical pretreatment standard or standards, the industrial user shall submit a progress report to the control authority including, at a minimum, whether or not compliance with the increment of progress has been met on such date and, if not, the date on which compliance with this increment of progress is expected, the reason for delay, and the steps being taken by the industrial user to return the construction to the schedule established.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(c)(3)	yes	yes	no
3745-3-06	C10	shall	In no event shall more than nine months elapse between such progress reports to the control authority.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(c)(3)	yes	yes	no
3745-3-06	D	shall	Within ninety days following the date for final compliance with applicable categorical pretreatment standards or, in the case of a new source, following commencement of the introduction of wastewater into the POTW, any industrial user subject to categorical pretreatment standards shall submit to the control authority a report containing the information described in paragraphs (C)(4) to (C)(7) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(d)	yes	yes	no
3745-3-06	D	shall	For industrial users subject to equivalent mass or concentration limits established by the control authority in accordance with the procedures in paragraph (I) of rule 3745-3-09 of the Administrative Code, this report shall contain a reasonable measure of the user's long-term production rate.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(d)	yes	yes	no

3745-3-06	D	shall	For all other industrial users subject to categorical pretreatment standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the user's actual production during the appropriate sampling period.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(d)	yes	yes	no
3745-3-06	E1	shall	Significant industrial users subject to pretreatment standards after the compliance date of such pretreatment standard, or, in the case of a new source, after commencement of the discharge into the POTW, shall submit a periodic compliance monitoring report to the control authority during the months of June and December, unless required more frequently or during different months by the categorical pretreatment standard or the control authority.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(1) & (h)	yes	yes	no
3745-3-06	E1	shall	The periodic compliance monitoring report shall include all of the following information:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(1) & (h)	yes	yes	no
3745-3-06	E1g	shall	For industrial users granted a monitoring waiver by the control authority, the periodic compliance report shall include the signed certification requirements specified in paragraph (C)(1)(d) of rule 3745-3-03 of the Administrative Code, as well as the certification requirements specified in paragraph (F) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(2)(v)	yes	yes	no
3745-3-06	E2	shall	If the control authority includes this condition within an industrial user's control mechanism, both of the following conditions shall be met:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(3)	yes	yes	no
3745-3-06	E2a	shall	The industrial user shall notify the control authority immediately of any changes at the facility causing the user to no longer meet conditions in paragraph (M) of rule 3745-3-01 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(3)(iv)	yes	yes	no
3745-3-06	E2a	shall	Upon notification, the industrial user shall immediately begin complying with the minimum reporting requirement specified in the POTW's pretreatment program.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(3)(iv)	yes	yes	no
3745-3-06	E2b	shall	The control authority shall retain documentation to support the determination that an industrial user meets the definition of a mid-tier categorical industrial user in paragraph (M) of rule 3745-3-01 of the Administrative Code for a period of three years after the expiration of the control mechanism.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(3)(v)	yes	yes	no
3745-3-06	E3a	shall	To implement this option, a TOMP shall be submitted to the control authority for review and approval and shall include the following information.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-3-06	E3a	shall	To implement this option, a TOMP shall be submitted to the control authority for review and approval and shall include the following information.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-3-06	E3a	shall	If requested information is not applicable, an explanation shall be included in the plan.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3ai	shall	Organic constituents of trade name products shall be obtained from the supplier.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3aiib	shall	Once pollution prevention options are identified, a technical and economic evaluation of viable options shall be conducted to select options, or projects that are technically and economically viable.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3aiib	shall	A schedule of implementation shall be developed and a measurement system to track the implementation progress of the pollution prevention options shall be developed and revised as necessary.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3aiib	shall	A schedule of implementation shall be developed and a measurement system to track the implementation progress of the pollution prevention options shall be developed and revised as necessary.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3aiv	shall	A detailed description for each waste shall be included with information on how the waste is stored prior to disposal.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3av	shall	These procedures shall include, but are not limited to, the following:	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3ava	shall	These practices shall include, but are not limited to, the following:	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3avavi	shall	The containment system shall be designed and maintained to not allow leakage.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3avb	shall	Visual inspections shall be conducted at least once per week.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3avd	shall	This plan shall include all floor drains, dikes, and containment areas in the storage facility.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3avi	shall	If a spill or leak containing a TTO enters the process wastewaters and discharges to a POTW or surface waters, the POTW and control authority, as applicable, shall be promptly notified by the industrial user within twenty-four hours of discovery.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.17(c)(2)	yes	yes	no
3745-3-06	E3avi	shall	Information regarding the facility, chemicals spilled and remedial actions shall be provided in the notification.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.17(c)(2)	yes	yes	no
3745-3-06	E3avi	shall	The spill or leak notification plan shall also include, at a minimum, the following:	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3avic	shall	A list of agencies to be contacted during an emergency and their telephone numbers shall also be posted where organics are used and stored.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3b	shall	The facility's effluent shall be sampled and analyzed for all toxic organic compounds, as indicated on the list included in the appropriate categorical standard, as follows:	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3bi	shall	Samples shall be collected and analyzed in accordance with 40 C.F.R. 136, with appropriate detection levels.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3bii	shall	The reporting form from the laboratory analyzing the samples shall be included in the TOMP.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3biii	shall	The steps in the regulated process in which toxic organics are used shall be described.	6111.042, 6111.03(P)	general authority		yes	no	no

3745-3-06	E3biv	shall	The source where toxic organics could be introduced into the wastestream besides those referenced in paragraph (E)(3)(b)(iii) of this rule shall be described.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3bv	shall	A flow schematic showing all of the sources and pathways where toxic organics could enter the wastestream shall be provided.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3bvi	shall	The approximate quantities of each toxic organic chemical used at each step in the regulated process shall be listed.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3c	shall	In order to qualify for the alternative in paragraph (E)(3) of this rule, the following criteria shall be met:	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3ci	shall	The baseline analysis shall show compliance with the appropriate TTO standards.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3cii	shall	An acceptable TOMP shall be submitted to the control authority.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-3-06	E3ciii	shall	The following certification statement shall be signed by an officer of the company or manager responsible for overall plant operations, and submitted with the TOMP and each subsequent periodic compliance report:	6111.042, 6111.03(P)	federal required / general authority	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-3-06	E3d	shall	The control authority, and the POTW, as applicable, shall be notified if any production process is modified or if conditions change that affect the use or storage of toxic organics.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(j)	yes	yes	no
3745-3-06	E3e	shall	To continue implementation of the alternate TTO monitoring, the industrial user shall submit an updated TOMP to the control authority for review and approval in accordance to the procedures described under the pretreatment program.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3g	shall	TTO monitoring shall resume upon the end or revocation of certification.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	F	shall	The reports and certifications required by this rule shall include the following certification statement and shall be signed by an authorized representative of the industrial user, as follows:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(l); 403.6(a)(2)(ii)	yes	yes	no
3745-3-06	F	shall	The reports and certifications required by this rule shall include the following certification statement and shall be signed by an authorized representative of the industrial user, as follows:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(l)	yes	yes	no
3745-3-06	F2e	shall	If an authorization under paragraph (F)(2)(d) of this rule is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (F)(2)(d) of this rule shall be submitted to the control authority prior to or together with any reports to be signed by an authorized representative.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(l)(4)	yes	yes	no
3745-3-06	G	shall	Sampling and analysis performed in preparation of any report required by this rule shall be conducted in accordance with all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)	yes	yes	no
3745-3-06	G1	shall	For the reports required in paragraphs (B) and (D) of this rule, a minimum of four grab samples shall be used for pH, hexavalent chromium, cyanide, total phenols, oil and grease, sulfide, and volatile organics for facilities for which historical sampling data do not exist; for facilities for which historical sampling data are available, the control authority may authorize a requirement of fewer grab samples.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-3-06	G1	shall	For all other pollutants, twenty-four-hour composite samples shall be obtained through flow-proportional composite sampling techniques, unless flow-proportional sampling is waived by the control authority.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G3	shall	Except as otherwise provided in this rule, sampling and analysis shall be performed in accordance with the techniques prescribed in 40 C.F.R. 136.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(5)	yes	yes	no
3745-3-06	G3	shall	Where 40 C.F.R. 136 does not contain sampling or analytical techniques for the pollutant in question, or where the director determines that the 40 C.F.R. 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed by using analytical methods or other applicable sampling and analytical procedures approved by the director.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(5)	yes	yes	no
3745-3-06	G5	shall	Unless paragraph (G)(5)(c) of this rule applies, repeat sampling and analysis shall be performed within thirty days after the industrial user or control authority becomes aware of the violation.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-3-06	G5a	shall	If sampling performed by an industrial user indicates a violation, the user shall notify the control authority within twenty-four hours of becoming aware of the violation.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-3-06	G5a	shall	The user shall also repeat the sampling and analysis and submit the results of the repeat analysis to the control authority within thirty days after becoming aware of the violation.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-3-06	G5b	shall	If sampling and analysis performed by the control authority under paragraph (G)(4) of this rule or paragraph (C)(2)(e) of rule 3745-3-03 of the Administrative Code indicates a violation, the control authority shall perform the repeat sampling and analysis unless the control authority notifies the user of the violation and requires the user to perform the repeat analysis.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-3-06	G6	shall	The reports required in paragraphs (B), (D), and (E) of this rule shall be conducted in accordance with all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)	yes	yes	no
3745-3-06	G6a	shall	The reports shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, which data is representative of conditions occurring during the reporting period.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no

3745-3-06	G6b	shall	The control authority shall require that frequency of monitoring necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G6c	shall	Grab samples shall be used for pH, hexavalent chromium, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G6d	shall	For all other pollutants, twenty-four-hour composite samples shall be obtained through flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the control authority.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G6e	shall	Where time-proportional composite sampling or grab sampling is authorized by the control authority, the samples shall be representative of the discharge and the decision to allow the alternative sampling shall be documented in the industrial user file for that facility or facilities.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G6e	shall	Where time-proportional composite sampling or grab sampling is authorized by the control authority, the samples shall be representative of the discharge and the decision to allow the alternative sampling shall be documented in the industrial user file for that facility or facilities.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G7	shall	For the reports required by paragraph (E) of this rule, the control authority shall require the number of grab samples necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-3-06	G8	shall	If an industrial user subject to the reporting requirement in paragraph (E) of this rule monitors any regulated pollutant at the permitted sampling location more frequently than required by the control authority, using the procedures described in paragraph (G)(3) of this rule, the results of this monitoring shall be included in the report.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(6)	yes	yes	no
3745-3-06	H	shall	All industrial users shall promptly notify the control authority and the POTW in the cases where the POTW does not have an approved pretreatment program in advance of any substantial change in the volume or character of pollutants in their discharge including the listed or characteristic hazardous wastes for which the industrial user has submitted initial notification under 40 C.F.R. 403.12(p).	6111.042, 6111.03(P)	federal required	40 CFR 403.12(j)	yes	yes	no
3745-3-06	H	shall	Industrial users shall notify the POTW immediately of any changes at the facilities affecting potential for a slug discharge.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(f)	yes	yes	no
3745-3-06	I	shall	In addition to the certification statement in paragraph (F)(1) of this rule, a facility determined to be a non-significant categorical industrial user pursuant to paragraph (N) of rule 3745-3-01 of the Administrative Code shall annually submit the following certification statement, signed in accordance with the signatory requirements in paragraph (F) of this rule.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(q)	yes	yes	no
3745-3-06	I	shall	The following certification shall accompany any report required by the POTW:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(q)	yes	yes	no
3745-3-06	J	shall	All industrial users subject to this rule shall retain records of all information resulting from any monitoring activities, regardless of whether such monitoring activities were required by the control mechanism, including documentation associated with BMPs.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(1)	yes	yes	no
3745-3-06	J	shall	. Such records shall be retained for a minimum of three years and shall include the following for all samples:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(2)	yes	yes	no
3745-3-06	J	shall	. Such records shall be retained for a minimum of three years and shall include the following for all samples:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(1)	yes	yes	no
3745-3-06	K	shall	In addition to the requirement of paragraph (J) of this rule, any industrial user subject to this rule shall retain all of the following for a minimum of three years:	6111.042, 6111.03(P)	federal required		yes	yes	no
3745-3-06	L	shall	Industrial users subject to this rule shall retain all control mechanisms and pollution prevention alternatives (e.g. slug control plan, toxic organic management plan) for as long as these documents are effective and for at least three years after the date on which these documents become ineffective.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	M	shall	Industrial users shall make the records described in paragraphs (J) to (L) of this rule available for inspection and copying by the POTW and the Ohio EPA.	6111.042, 6111.03(P)	general authority	40 CFR 403.12(o)(2)	yes	no	no
3745-3-06	M	shall	The period of retention described in paragraphs (J) to (L) of this rule shall be extended during the course of any unresolved litigation regarding the discharge of pollutants or the operation of the POTW pretreatment program or when requested by the director.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(o)(2)	yes	yes	no
3745-3-06	B1	require	Categorical industrial users are required to submit to the control authority a baseline report, as described in paragraph (C) of this rule.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B1b	require	New sources, and sources that become industrial users subsequent to the promulgation of an applicable categorical standard, shall be required to submit to the control authority a report which contains the information listed in paragraphs (C)(1) to (C)(6) of this rule at least ninety days prior to commencement of discharge.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	B1b	require	New sources shall also be required to include in this report information on the method of pretreatment the source intends to use to meet applicable pretreatment standards.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no

3745-3-06	B2	require	Where the industrial user's categorical pretreatment standard has been modified by a removal allowance, fundamentally different factor variance, or the combined wastestream formula under paragraph (I)(1) of rule 3745-3-09 of the Administrative Code, at the time the user submits the baseline report the information required by paragraphs (C)(6) and (C)(7) of this rule shall pertain to the modified limits.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(7)(i)	yes	yes	no
3745-3-06	C	require	The baseline report required by paragraph (B) of this rule shall contain all of the following information:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)	yes	yes	no
3745-3-06	C5b	require	The user shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the standard or control authority) of regulated pollutants in the discharge from each regulated process.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5b	require	Both daily maximum and average concentration (or mass, where required) shall be reported	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5b	require	In cases where the standard requires compliance with a BMP or a pollution prevention alternative, the industrial user shall submit documentation as required by the control authority or the applicable standards to determine compliance with the standard.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C5b	require	In cases where the standard requires compliance with a BMP or a pollution prevention alternative, the industrial user shall submit documentation as required by the control authority or the applicable standards to determine compliance with the standard.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-3-06	C7	require	A statement, reviewed, signed, and certified by an authorized representative of the industrial user, as defined in paragraph (F) of this rule, indicating whether pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance, or additional pretreatment is required by the industrial user to meet the pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(6)	yes	yes	no
3745-3-06	C8	require	If additional pretreatment operation and maintenance, or both, will be required to meet the categorical pretreatment standards, the shortest schedule by which the industrial user will provide such additional measures.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(b)(7)	yes	yes	no
3745-3-06	C9	require	The schedule required by paragraph (C)(8) of this rule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the industrial user to meet the applicable categorical pretreatment standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executive contract for major components, commencing construction, completing construction, etc).	6111.042, 6111.03(P)	federal required	40 CFR 403.12(c)	yes	yes	no
3745-3-06	C9	require	The schedule required by paragraph (C)(8) of this rule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the industrial user to meet the applicable categorical pretreatment standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executive contract for major components, commencing construction, completing construction, etc).	6111.042, 6111.03(P)	federal required	40 CFR 403.12(c)(1)	yes	yes	no
3745-3-06	C10	require	) Not later than fourteen days following each date in the schedule required by paragraph (C)(8) of this rule and the date for final compliance with the applicable categorical pretreatment standard or standards, the industrial user shall submit a progress report to the control authority including, at a minimum, whether or not compliance with the increment of progress has been met on such date and, if not, the date on which compliance with this increment of progress is expected, the reason for delay, and the steps being taken by the industrial user to return the construction to the schedule established.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(c)(3)	yes	yes	no
3745-3-06	E1	require	Significant industrial users subject to pretreatment standards after the compliance date of such pretreatment standard, or, in the case of a new source, after commencement of the discharge into the POTW, shall submit a periodic compliance monitoring report to the control authority during the months of June and December, unless required more frequently or during different months by the categorical pretreatment standard or the control authority.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(e)(1) & (h)	yes	yes	no
3745-3-06	E1a	require	A report indicating the nature and concentration of the pollutants in the discharge that are limited by applicable categorical pretreatment standards and pollutants required by the control authority.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(e)(1) & (h)	yes	yes	no
3745-3-06	E1b	require	A record of measured or estimated average and maximum daily flows for the reporting period for the discharge to the POTW, reporting the same information as called for under paragraph (C)(4) of this rule unless the control authority should require more detailed reporting of flows.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.12(e)(1) & (h)	yes	yes	no
3745-3-06	E1f	require	In cases where the pretreatment standard requires compliance with a BMP or a pollution prevention alternative, documentation required by the control authority or the pretreatment standard necessary to determine the compliance status of the user.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(1) & (h)	yes	yes	no

3745-3-06	E1f	require	In cases where the pretreatment standard requires compliance with a BMP or a pollution prevention alternative, documentation required by the control authority or the pretreatment standard necessary to determine the compliance status of the user.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(1) & (h)	yes	yes	no
3745-3-06	E2	require	For a mid-tier categorical industrial user as defined in paragraph (M) of rule 3745-3-01 of the Administrative Code, the control authority may reduce the frequency for reporting specified in paragraph (E)(1) of this rule to no less than once per year, unless required more frequently in the pretreatment standard, by the control authority, or by the director.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(e)(3)	yes	yes	no
3745-3-06	E3bvii	require	Evaluate any regulated TTO found in the effluent, other than those in the TTO inventory list required in paragraph (E)(3)(a)(i) of this rule and determine if the TTOs are formed as reaction products or by-products or from raw materials, impurities, equipment corrosion or other sources.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	E3d	require	The control authority may require that additional sampling be performed.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	F	require	The reports and certifications required by this rule shall include the following certification statement and shall be signed by an authorized representative of the industrial user, as follows:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(l)	yes	yes	no
3745-3-06	F2a	require	A responsible corporate officer, if the industrial user submitting the reports required by this rule is a corporation.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(l)(1)	yes	yes	no
3745-3-06	G	require	Sampling and analysis performed in preparation of any report required by this rule shall be conducted in accordance with all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)	yes	yes	no
3745-3-06	G1	require	For the reports required in paragraphs (B) and (D) of this rule, a minimum of four grab samples shall be used for pH, hexavalent chromium, cyanide, total phenols, oil and grease, sulfide, and volatile organics for facilities for which historical sampling data do not exist;	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-3-06	G4	require	Except in the case of non-significant categorical industrial users, the sampling and analysis required in paragraphs (B), (D), and (E) of this rule may be performed by the control authority in lieu of the industrial user.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-3-06	G4	require	Where the POTW performs the required sampling and analysis in lieu of the industrial user all of the following apply:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-3-06	G4a	require	The user will not be required to submit the compliance certification statement required in paragraph (C)(6) of this rule;	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-3-06	G4a	require	The user will not be required to submit the compliance certification statement required in paragraph (C)(6) of this rule;	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-3-06	G4b	require	The industrial user will not be required to submit the report if the POTW solely collects all of the information required for the report.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-3-06	G4b	require	The industrial user will not be required to submit the report if the POTW solely collects all of the information required for the report.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-3-06	G4c	require	These sampling and analysis results do not include the annual monitoring required in paragraph (C)(2)(e) of rule 3745-3-03 of the Administrative Code.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	G5b	require	If sampling and analysis performed by the control authority under paragraph (G)(4) of this rule or paragraph (C)(2)(e) of rule 3745-3-03 of the Administrative Code indicates a violation, the control authority shall perform the repeat sampling and analysis unless the control authority notifies the user of the violation and requires the user to perform the repeat analysis.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-3-06	G5c	require	Resampling is not required if either of the following apply:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-3-06	G6	require	The reports required in paragraphs (B), (D), and (E) of this rule shall be conducted in accordance with all of the following:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)	yes	yes	no
3745-3-06	G6b	require	The control authority shall require that frequency of monitoring necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-3-06	G7	require	For the reports required by paragraph (E) of this rule, the control authority shall require the number of grab samples necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-3-06	G7	require	For the reports required by paragraph (E) of this rule, the control authority shall require the number of grab samples necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-3-06	G8	require	If an industrial user subject to the reporting requirement in paragraph (E) of this rule monitors any regulated pollutant at the permitted sampling location more frequently than required by the control authority, using the procedures described in paragraph (G)(3) of this rule, the results of this monitoring shall be included in the report.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(g)(6)	yes	yes	no
3745-3-06	G9	require	The control authority may require an industrial user to install flow monitoring facilities, instruments, and recording devices to enable accurate measurement of flows as determined to be necessary.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-06	I	require	The following certification shall accompany any report required by the POTW:	6111.042, 6111.03(P)	federal required	40 CFR 403.12(q)	yes	yes	no
3745-3-06	J	require	All industrial users subject to this rule shall retain records of all information resulting from any monitoring activities, regardless of whether such monitoring activities were required by the control mechanism, including documentation associated with BMPs.	6111.042, 6111.03(P)	federal required	40 CFR 403.12(o)(1)	yes	yes	no

3745-3-07	A	shall	Any record, report, or other information obtained under this chapter shall be available to the public, except upon a showing satisfactory to the control authority that all or part of such record, report, or other information, other than effluent data, would divulge methods or processes entitled to protection as trade secrets, in which instance the control authority shall consider such record, report, or other information or part thereof as confidential and administer such record, report, or other information pursuant to this rule.	6111.042, 6111.03(P)	state and federal required	40 CFR 403.14, ORC 6111	yes	yes	no
3745-3-07	A	shall	Any record, report, or other information obtained under this chapter shall be available to the public, except upon a showing satisfactory to the control authority that all or part of such record, report, or other information, other than effluent data, would divulge methods or processes entitled to protection as trade secrets, in which instance the control authority shall consider such record, report, or other information or part thereof as confidential and administer such record, report, or other information pursuant to this rule.	6111.042, 6111.03(P)	state and federal required	40 CFR 403.14(b) and 6111	yes	yes	no
3745-3-07	A	shall not	Wastewater constituents and characteristics and other effluent data, as defined in 40 C.F.R. 2.302, shall not be considered confidential information and shall be available to the public without restriction.	6111.042, 6111.03(P)	federal required and state required	6111.05 (A), and 40 CFR	yes	yes	no
3745-3-07	A	shall	Wastewater constituents and characteristics and other effluent data, as defined in 40 C.F.R. 2.302, shall not be considered confidential information and shall be available to the public without restriction.	6111.042, 6111.03(P)	federal required	40 CFR 403.14(b)	yes	yes	no
3745-3-07	A	shall	All other information that is submitted to the state or POTW shall be available to the public at least to the extent provided by 40 C.F.R. 2.302.	6111.042, 6111.03(P)	federal required	40 CFR 403.14(c)	yes	yes	no
3745-3-07	B	shall	A request for confidential treatment shall be submitted to the control authority simultaneously with submission of the specific record, report, or other information with documentation sufficient to support that the record, report, or other information is confidential	6111.042, 6111.03(P)	federal required	40 CFR 403.14(a)	yes	yes	no
3745-3-07	B	shall	Failure to make such timely request shall constitute a waiver of the right to prevent public disclosure.	6111.042, 6111.03(P)	federal required	40 CFR 403.14(a)	yes	yes	no
3745-3-07	C	shall	A decision as to whether to treat the record, report, or other information as confidential shall be made by the control authority within forty-five days of receipt of the request and accompanying documentation.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-07	C	shall	Until such decision is made, the record, report, or other information or part thereof, shall be treated as confidential.	6111.042, 6111.03(P)	general authority and federal required	40 CFR 2.205	yes	no	no
3745-3-07	C	shall	The person requesting confidentiality shall be notified in writing of the control authority's decision.	6111.042, 6111.03(P)	general and federal	40 CFR 2.205	yes	yes	no
3745-3-09	B	shall	Industrial users subject to pretreatment standards shall comply with the limits under rule 3745-3-04 of the Administrative Code - "Prohibited discharges," and with any more stringent pretreatment standards applicable under an approved POTW pretreatment program.	6111.042, 6111.03(P)	federal required	40 CFR 403.3(l), 403.8(f)(1)(ii)	yes	yes	no
3745-3-09	C	shall	Existing sources that become industrial users subsequent to promulgation of an applicable categorical pretreatment standard shall be considered existing industrial users except where such sources meet the definition of a new source as defined in rule 3745-3-01 of the Administrative Code.	6111.042, 6111.03(P)	federal required	40 CFR 403.6(b)	yes	yes	no
3745-3-09	D	shall	New sources shall comply with the pretreatment standard for new sources (PSNS) that is specified in the applicable subcategory of the categorical pretreatment standard.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.6	yes	yes	no
3745-3-09	E	shall	Except where expressly authorized to do so by an applicable categorical pretreatment standard or requirement, no industrial user shall ever increase the use of process water or, in any other way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a pretreatment standard or requirement.	6111.042, 6111.03(P)	federal required	40 CFR 403.6(d)	yes	yes	no
3745-3-09	F	shall	Limits in categorical pretreatment standards shall apply to the effluent of the process regulated by the standard, or as otherwise specified by the standard.	6111.042, 6111.03(P)	federal required	40 CFR 403.6(c)(1)	yes	yes	no
3745-3-09	G	shall	Unless otherwise provided in an applicable categorical pretreatment standard, compliance with such standards shall be measured in accordance with the methods of analyses and sampling procedures specified under rule 3745-3-06 of the Administrative Code.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.6(e)(3), 40 CFR 403.12 (g)	yes	yes	no
3745-3-09	H	shall	In all cases in which a determination is sought by an industrial user concerning the applicability of a particular subcategory under the categorical pretreatment standards, the final determination issued under 40 C.F.R. 403.6 shall control the application of the appropriate subcategory.	6111.042, 6111.03(P)	federal required / general authority	40 CFR 403.6(a)	yes	yes	no
3745-3-09	H	shall	There shall be no right or procedure implied under this chapter for industrial users or POTWs to seek such categorical determinations from the director other than through the procedures and within the requirements of 40 C.F.R. 403.6.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-09	I1	shall	Categorical pretreatment standards shall apply to an industrial user unless an enforceable alternative limit to the standard is applicable to the industrial user under any of the following regulations:	6111.042, 6111.03(P)	general authority		yes	no	no

3745-3-09	12	shall	In order for the alternative limit referenced in paragraph (l)(1) of this rule to be considered enforceable against an industrial user, compliance with the alternative limit shall be required by local ordinance or contract administered under an approved pretreatment program, or by orders issued to the industrial user by the director under section 6111.03 of the Revised Code.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-09	13	shall	There shall be no right or procedure implied under this chapter for an industrial user, POTW, or any other person to seek an alternative limit to a categorical pretreatment standard other than through the procedures and within the requirements set forth in paragraphs (l)(1) and (l)(2) of this rule.	6111.042, 6111.03(P)	general authority		yes	no	no
3745-3-09	12	require	In order for the alternative limit referenced in paragraph (l)(1) of this rule to be considered enforceable against an industrial user, compliance with the alternative limit shall be required by local ordinance or contract administered under an approved pretreatment program, or by orders issued to the industrial user by the director under section 6111.03 of the Revised Code.	6111.042, 6111.03(P)	general authority		yes	no	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-4-01	A	shall	All data submitted under the credible data program that meet the specified requirements, shall be stored and made accessible to both the public and other state agencies in a computerized data base.	6111.51	State required ORC 6111.55		No	yes	yes
3745-4-01	B	shall	Participation in this program is voluntary except for the requirement under section 6111.54 of the Revised Code that each state agency in possession of surface water quality data shall submit the data to Ohio EPA in a format designated by the director.	6111.51	State required ORC 6111.54		No	yes	no
3745-4-01	B	shall	No later than March thirty-first of each year, state agencies shall submit surface water quality data for the preceding year to Ohio EPA.	6111.51	State general authority		No	no	no
3745-4-01	D1	shall	The data originating from studies conducted and samples collected by Ohio EPA, Ohio EPA's contractors, federal environmental agencies including the United States environmental protection agency, and other state environmental agencies shall be deemed credible at the appropriate level according to the specifications set forth in this chapter.	6111.51	State required 6111.51 (C)		No	yes	no
3745-4-01	D2	shall	Unless the director identifies reasons why the data are not credible, data shall be considered credible for the submitted purposes if the data meet one or more of the following requirements:	6111.51	State required 6111.51 (C)		No	yes	yes
3745-4-01	E	shall	Nothing in this chapter shall be construed as granting approval for the collection of any wildlife without obtaining a wild animal collecting permit from the chief of the division of wildlife, Ohio department of natural resources pursuant to section 1533.08 of the Revised Code and performing the duties specified in section 1533.09 of the Revised Code.	6111.51	State general authority		No	no	no
3745-4-01	A	must	Except as provided in paragraph (D) of this rule, persons collecting and submitting data to Ohio EPA for consideration as credible data must have status as a qualified data collector (QDC) as provided in rule 3745-4-03 of the Administrative Code.	6111.51	State required 6111.51 (C)		No	yes	no
3745-4-02	A	shall	The program shall provide an introduction to basic water quality principles and train participants in the use of field instrumentation, sample collection and preservation, and data recording techniques.	6111.51	State Required ORC 6111.51 (A)(1)		no	yes	no
3745-4-02	B	shall	Historical data shall be evaluated to insure that more recent information does not indicate that the data are not representative of current conditions.	6111.51	State Required ORC 6111.51 (A)(1)		no	yes	yes
3745-4-02	G	must	The program must be consistent with national or state science content standards, provide an introduction to basic water quality principles and train participants in the use of field instrumentation, sample collection and preservation, and data recording techniques.	6111.51	State Required ORC 6111.53 (A)		no	yes	no
3745-4-03	A1a	shall	Successful completion of a level 1 training from a QDC trainer approved by the director shall result in automatic approval as a level 1 QDC if the trainee provides name and contact information at the training.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	A1a	shall	Individuals automatically approved as level 1 QDCs shall be included on the list of approved QDCs on the credible data website at: http://www.epa.ohio.gov/dsw/credibledata/index.aspx .	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	A1b	shall	The director shall determine the acceptability of the basic water quality monitoring training based on factors including, but not limited to, the following:	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	yes
3745-4-03	A2ai	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2aii	shall	Within the past one year, the applicant shall have attended training and achieved a passing mark in stream habitat assessment "Qualitative Habitat Evaluation Index" (QHEI) testing offered by Ohio EPA or a person authorized pursuant to this chapter to provide such training.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2bi	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2bii	shall	Within the past one year, the applicant shall have attended training and achieved a passing mark in QHEI, biocriteria and "Headwater Habitat Evaluation Index" (HHEI) testing offered by Ohio EPA or a person authorized pursuant to this chapter to provide such training.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2ci	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine or lake physical forms and habitat features. .	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no

3745-4-03	A2cii	shall	The applicant shall demonstrate through education or experience knowledge of and the ability to accurately use macroinvertebrate taxonomic references and dichotomous keys to identify midwestern aquatic macroinvertebrates to the level of family.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2ciii	shall	Within one hundred eighty days prior to submission of a level 2 QDC application, the applicant shall have achieved a passing mark in a macroinvertebrate taxonomic identification examination administered by Ohio EPA or a person authorized under this chapter to administer such an examination.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2civ	shall	The applicant shall have college-level course credit in aquatic invertebrate zoology or practical experience in the identification of aquatic macroinvertebrates.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2cv	shall	The applicant shall have completed and achieved passing marks in undergraduate core course work in limnology, aquatic biology, environmental sciences or a related discipline, or has two years of practical experience in environmental assessment work.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2cvi	shall	The applicant shall have one year of practical experience involving work in developing water quality sampling and analysis plans, quality assurance plans, and data quality objectives processes.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2di	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine or lake physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2dii	shall	The applicant shall have completed and achieved passing marks in undergraduate core course work in a biological, chemical, microbiological, natural or physical science, or has two years of pertinent laboratory experience performing water quality testing and analysis, or has two years of pertinent experience in chemical or microbiological water quality data analysis, interpretation and report writing.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2diii	shall	The applicant shall have one year of practical experience involving work in developing chemical or microbiological surface water quality sampling and analysis plans, quality assurance plans, and data quality objectives processes.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A2div	shall	The applicant shall have one year of practical experience involving surface water quality sampling techniques and water quality sampling equipment.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3ai	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3aii	shall	Within the past one year, the applicant shall have attended training and achieved a passing mark in stream habitat assessment "Qualitative Habitat Evaluation Index" (QHEI) testing offered by Ohio EPA or a person authorized pursuant to this chapter to provide such training.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3bi	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3bii	shall	Within the past one year the applicant shall have attended training and achieved a passing mark in QHEI, biocriteria and "Headwater Habitat Evaluation Index" (HHEI) testing offered by Ohio EPA or a person authorized pursuant to this chapter to provide such training.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3ci	shall	The applicant shall, within the past one year, have attended training to conduct fish assessments and habitat assessments and achieved a passing mark in a program offered by Ohio EPA or a person authorized under this chapter to administer such training.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3cii	shall	The applicant shall satisfy the requirements of stream habitat assessment in paragraph (A)(3)(a) of this rule.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3ciii	shall	The applicant shall demonstrate knowledge of Ohio EPA electrofishing sampling protocols and data assessment procedures.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3ciii	shall	This knowledge shall be tested under provisions in paragraph (A)(3)(c)(i) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	A3civ	shall	The applicant shall demonstrate knowledge of and the ability to accurately use fish taxonomic references and dichotomous keys to identify midwestern fish to the level of species.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3civ	shall	This knowledge shall be tested under provisions in paragraph (A)(3)(c)(i) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	Ac3v	shall	The applicant shall have college-level course credit in ichthyology or two years of experience in the identification of midwestern fish species.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no

3745-4-03	A3cvi	shall	The applicant shall have completed and achieved passing marks in undergraduate core course work in limnology, aquatic biology, environmental sciences or a related discipline, or has two years of practical experience in environmental assessment work.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3cvii	shall	The applicant shall have two years of practical experience involving work in developing biological water quality sampling and analysis plans, quality assurance plans, and data quality objectives processes.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3cviii	shall	The applicant shall have two years of practical experience in using electrofishing sampling techniques.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3di	shall	The applicant shall demonstrate thorough education or experience a general knowledge of stream and riverine physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3dii	shall	The applicant shall, within the last two years, have attended training to conduct macroinvertebrate assessments and achieved a passing mark in a program offered by Ohio EPA or a person authorized under this chapter to administer such training.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3diii	shall	The applicant shall have knowledge of Ohio EPA macroinvertebrate field sampling, laboratory analysis, and data assessment procedures.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3diii	shall	This knowledge shall be tested under provisions in paragraph (A)(3)(d)(i) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	A3div	shall	The applicant shall have knowledge of and the ability to accurately use macroinvertebrate taxonomic references and dichotomous keys to identify midwestern aquatic macroinvertebrates to the level of taxonomy used by Ohio EPA.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3div	shall	This knowledge shall be tested under provisions in paragraph (A)(3)(d)(i) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	A3dv	shall	The applicant shall have college-level course credit in aquatic invertebrate zoology or two years of practical experience in the identification of aquatic macroinvertebrates	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3dvi	shall	The applicant shall have completed and achieved passing marks in undergraduate core course work in limnology, aquatic biology, environmental sciences or a related discipline, or has two years of practical experience in environmental assessment work.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3dvii	shall	The applicant shall have two years of practical experience involving work in developing biological water quality sampling and analysis plans, quality assurance plans, and data quality objectives processes.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3ei	shall	The applicant shall demonstrate through education or experience a general knowledge of stream and riverine or lake physical forms and habitat features.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3eii	shall	The applicant shall have completed and achieved passing marks in undergraduate core course work in a biological, microbiological, chemical, natural or physical science, or has four years of pertinent laboratory experience performing water quality testing and analysis, or has four years of pertinent experience in chemical or microbiological water quality data analysis, interpretation and report writing.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3eiii	shall	The applicant shall have two years of practical experience involving work in developing chemical or microbiological surface water quality sampling and analysis plans, quality assurance plans, and data quality objectives processes.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3eiv	shall	The applicant shall have two years of practical experience involving surface water quality sampling techniques and water quality sampling equipment.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	A3f	shall	The QDC shall monitor, assess and document the apprentice and provide an interim and final written evaluation of the apprentice to the director.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	A3f	shall	Accepting the apprenticeship as fulfillment of level 3 QDC qualifications shall be at the discretion of the director.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B1	shall	An applicant seeking to become a QDC shall submit to the director a complete and current application on forms provided by the director.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	B1	shall	The application shall include documentation demonstrating that the applicant completed water quality monitoring training described in paragraph (A) of this rule.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	B2	shall	An applicant shall submit copies of official transcripts from the appropriate educational institution and official training certifications or alternate required documentation to verify that the applicant meets the educational and training requirements set forth in paragraph (A) of this rule.	6111.51, 6111.53	State general authority		no	no	no

3745-4-03	B3	shall	The level 2 and level 3 applicants shall certify that all information submitted in support of the application is true, accurate, and complete and that the applicant has not been convicted of or pleaded guilty to a violation of section 2911.21 of the Revised Code (criminal trespass) or a substantially similar municipal ordinance within the previous five years.	6111.51, 6111.53	State required ORC 6111.53 (D)		no	yes	no
3745-4-03	B3	shall	Failure to include the certification shall render the application incomplete	6111.51, 6111.53	State required ORC 6111.53 (D)		no	yes	no
3745-4-03	B4	shall	Ohio EPA shall conduct a completeness review of the application and shall notify the applicant in the event the application is incomplete.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B4	shall	Ohio EPA shall conduct a completeness review of the application and shall notify the applicant in the event the application is incomplete.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B4	shall not	Ohio EPA shall not consider an incomplete application and shall notify the applicant of the reasons the application is incomplete and of any additional information required for further consideration.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B4	shall	Ohio EPA shall not consider an incomplete application and shall notify the applicant of the reasons the application is incomplete and of any additional information required for further consideration.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B5	shall	The director shall either approve or deny a complete application by sending a letter to the applicant.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B5	shall	If the director denies the application, the director shall identify the deficiencies upon which the denial of the application is based.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B6	shall	The director shall maintain a list of approved, active QDCs.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B6	shall	The active QDC list shall provide the organization with which the QDC is affiliated, the approval level and specialty, the QDC number, and expiration date of the status.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B6	shall	The current QDC list shall be displayed on the credible data web page at: http://www.epa.ohio.gov/dsw/credibledata/current_QDCs.aspx .	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	C1	shall not	Status as level 1 QDC shall not expire and a renewal application is not required.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C2	shall	Status as a level 2 QDC shall automatically expire five years after the date of approval of the application unless the approval has been renewed.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C3	shall	Status as a level 3 QDC shall automatically expire two years after the date of approval of the application unless the approval has been renewed or a timely renewal application has been submitted in accordance with this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C3	shall	Notwithstanding the above, status as a level 3 QDC shall automatically be renewed for a period of three years without submission of an application, where the QDC has submitted data while in the status of a level 3 QDC and the director has determined the data to be level 3 data.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C3	shall	The automatic renewal process can proceed on a rolling basis and each three-year renewal period shall be deemed effective beginning on the date the last sample was collected, or for taxonomic identification of benthic macroinvertebrates the date the last sample was processed, under the confines of an approved study plan.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C3	shall	The data shall have been submitted to the Agency.	6111.51, 6111.53	state required ORC 6111.53 (D)		no	yes	no
3745-4-03	C4	shall	Except as provided in paragraph (C)(3) of this rule, an applicant seeking renewal of the applicant's status as a level 2 or level 3 QDC shall submit to the director a renewal application prior to the date of expiration of the applicant's status as a level 2 or level 3 QDC.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C4ai	shall	Renewal applications shall be on forms for that purpose available from Ohio EPA.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C4aii	shall	The renewal application shall provide a means to re-submit the original application, if appropriate, or to update and amend the original application as necessary.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C4aiii	shall	Ohio EPA shall approve or deny the renewal application in accordance with the procedures set forth in paragraphs (B)(4) and (B)(5) of this rule.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	C4biv	shall	A QDC with a lapsed status extending beyond these time periods shall submit a full application as specified in paragraph (B) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	D2	shall	Upon making a finding under paragraph (D)(1) of this rule, the director shall first issue a proposed action revoking QDC status in accordance with Chapter 3745-49 of the Administrative Code.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	D3	shall	The director shall notify the QDC of a proposed action under paragraph (D)(2) of this rule.	6111.51, 6111.53	State general authority		no	no	yes

3745-4-03	D3	shall	The notice shall be by certified mail and shall set forth the period of ineligibility proposed by the director, the proposed effective date thereof, the reason therefor, the length of the proposed period of ineligibility, and the procedure for appealing the action.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	D3	shall	The notice shall be by certified mail and shall set forth the period of ineligibility proposed by the director, the proposed effective date thereof, the reason therefor, the length of the proposed period of ineligibility, and the procedure for appealing the action.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	D4	shall	Revocation of QDC status shall state a period during which the individual shall not apply for such status.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	D4	shall not	Revocation of QDC status shall state a period during which the individual shall not apply for such status.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	E1	shall	An individual seeking to become a QDC trainer for level 1 credible data shall include with the application to become a level 1 QDC trainer, documentation demonstrating all of the following:	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	E2	shall	Training required for level 2 or level 3 QDC status shall be performed by Ohio EPA, Ohio EPA's contractors or a third-party trainer having qualifications as a subject matter expert.	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	E2a	shall	A person interested in offering the training required for level 2 or level 3 QDC shall have the following qualifications:	6111.51, 6111.53	State required ORC 6111.53 (A)		no	yes	no
3745-4-03	E2b	shall	A person interested in offering training shall submit a written application to the director with the following information:	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	E2c	shall	The director shall either approve or deny the application by sending a letter to the applicant.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	E2c	shall	If the director denies the application, the director shall identify the deficiencies upon which the denial of the application is based.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	E3b	shall	All level 3 QDC trainees shall be tested by Ohio EPA or Ohio EPA's contractors.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	F	shall	Notwithstanding paragraph (E) of this rule, an individual, or an individual who works for an organization, contracted by Ohio EPA to conduct QDC training shall be an approved QDC trainer for the life of that contract.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	F	shall	Trainers' qualifications shall be evaluated by Ohio EPA staff as part of the contract process.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	A3f	must	For level 3 fish and macroinvertebrate certification, field collection and taxonomic identification must be included as part of the apprenticeship.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	A3f	must	If accepted, the applicant must take and pass the level 3 test for the specialty following the completion of the apprenticeship.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	B1	must	Applications must be submitted within the time limits provided in paragraph (A) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	B1	must	The director may grant a waiver extending the period during which the applicant must apply for QDC status if the applicant can document that extenuating circumstances prevented a timely submission.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	B1	require	The director may require the applicant to furnish additional documentation pertaining to the application.	6111.51, 6111.53	State general authority		no	no	yes
3745-4-03	B2	require	An applicant shall submit copies of official transcripts from the appropriate educational institution and official training certifications or alternate required documentation to verify that the applicant meets the educational and training requirements set forth in paragraph (A) of this rule.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	B4	require	Ohio EPA shall not consider an incomplete application and shall notify the applicant of the reasons the application is incomplete and of any additional information required for further consideration.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	C1	require	Status as level 1 QDC shall not expire and a renewal application is not required.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	E2	require	Training required for level 2 or level 3 QDC status shall be performed by Ohio EPA, Ohio EPA's contractors or a third-party trainer having qualifications as a subject matter expert.	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	E2a	require	A person interested in offering the training required for level 2 or level 3 QDC shall have the following qualifications:	6111.51, 6111.53	State general authority		no	no	no
3745-4-03	E2aii	require	Five or more years of practical experience performing the full set of skills required for the QDC level and specialty.	6111.51, 6111.53	State general authority		no	no	no

3745-4-04	A	shall	Except as provided by paragraph (D) of rule 3745-4-01 of the Administrative Code, all data submitted to the director for consideration as level 1 credible data shall be collected and submitted by level 1, level 2 or level 3 qualified data collectors (QDCs) approved by the director pursuant to rule 3745-4-03 of the Administrative Code.	6111.51	State general authority		no	no	no
3745-4-04	A	shall	The director shall accept the data as level 1 credible data provided the requirements of this rule are met.	6111.51	state required orc 6111.53 (C)		no	no	yes
3745-4-04	A	shall	The director shall have sole authority in determining whether data meet these requirements.	6111.51	State general authority		no	no	yes
3745-4-04	A	shall	Data reporting shall be in a format consistent with the requirements listed in this rule.	6111.51	State general authority		no	no	no
3745-4-04	B	shall	Data submitted by a QDC shall meet the following to be accepted as level 1 credible data	6111.51	State general authority		no	no	no
3745-4-04	B1	shall	Persons submitting data to Ohio EPA as a QDC under section 6111.53 of the Revised Code shall prepare and adhere to a project study plan.	6111.51	state required orc 6111.53 (C)		no	no	no
3745-4-04	B1a	shall	The QDC shall prepare and submit to the director for approval a project study plan using educational monitoring program guidance materials, citizen monitoring program guidance materials, or other valid resources.	6111.51	State general authority		no	no	no
3745-4-04	B1b	shall	Upon completion of the plan review, the director shall send written notification of deficiencies in the plan, if any are found, to the QDC and provide the QDC a reasonable opportunity to address such deficiencies.	6111.51	State general authority		no	no	yes
3745-4-04	B1b	shall	A plan submitted by a QDC not disapproved within sixty days of the initial submittal or, where a notification of deficiency has been issued, within sixty days of any revised submittal, shall be considered to have been approved.	6111.51	State required ORC 6111.53 (C)		no	no	no
3745-4-04	B1c	shall	A plan submitted by a QDC not disapproved within sixty days of the initial submittal or, where a notification of deficiency has been issued, within sixty days of any revised submittal, shall be considered to have been approved.	6111.51	State required ORC 6111.53 (C)		no	no	no
3745-4-04	B1d	shall	The director shall disapprove a site-specific plan that does not include the certification statement in paragraph (B)(3)(c) of this rule.	6111.51	State required ORC 6111.53 (D)		no	no	yes
3745-4-04	B2	shall	In preparing the project study plan, the QDC shall be responsible for selecting the appropriate field and laboratory methods, including quality assurance/quality control steps, that fit the objectives and purpose of the data collection project.	6111.51	State general authority		no	no	no
3745-4-04	B3	shall	QDCs choosing to submit data to Ohio EPA shall submit all collected data.	6111.51	State required ORC 6111.53 (D)		no	no	no
3745-4-04	B3	shall	Submission of data may be done at any time, but shall be done no later than one year after completion of the study identified in the project study plan.	6111.51	State general authority		no	no	no
3745-4-04	B3	shall	The following shall be submitted	6111.51	State general authority		no	no	no
3745-4-04	B4	shall	The director shall review data submissions to verify that they were submitted by a QDC, that appropriate test methods and quality control/quality assurance practices were used, and that the data reporting requirements are complete.	6111.51	State required ORC 6111.53 (E)		no	no	yes
3745-4-04	B4	shall	The review shall ensure that all components of the plan for the collection of data were followed	6111.51	State required ORC 6111.53 (E)		no	no	yes
3745-4-04	B4	shall	The director shall maintain a record of all submissions acceptable as level 1 data.	6111.51	State general authority		no	no	yes
3745-4-04	C	shall	The director from time to time shall publish examples of appropriate level 1 test methods for commonly sampled parameters.	6111.51	State general authority		no	no	yes
3745-4-04	B3b	require	A certification that, to the best of the QDC's knowledge and belief, the data were collected in accordance with the procedures required by the approved project study plan.	6111.51	State general authority		no	no	no
3745-4-05	A	shall	Except as provided by paragraph (D) of rule 3745-4-01 of the Administrative Code, all data submitted to the director for consideration as level 2 credible data shall be collected and submitted by level 2 or level 3 qualified data collectors (QDCs) approved by the director pursuant to rule 3745-4-03 of the Administrative Code	6111.51	State general authority		no	no	no
3745-4-05	A	shall	The director shall accept the data as level 2 credible data provided the requirements of this rule are met.	6111.51	state required orc 6111.53 (C)		no	no	yes
3745-4-05	A	shall	The director shall have sole authority in determining whether data meet these requirements.	6111.51	State general authority		no	no	yes
3745-4-05	A	shall	Data reporting shall be in a format consistent with the requirements listed in this rule.	6111.51	State general authority		no	no	no
3745-4-05	B	shall	Data submitted by a QDC shall meet the following to be accepted as level 2 credible data:	6111.51	State general authority		no	no	no
3745-4-05	B1	shall	Persons submitting data to Ohio EPA as a QDC under section 6111.53 of the Revised Code shall prepare and adhere to a project study plan.	6111.51	state required orc 6111.53 (C)		no	no	no

3745-4-05	B1a	shall	The QDC shall prepare and submit to the director for approval a project study plan using the guidelines presented in appendix A to this rule.	6111.51	State general authority		no	no	no
3745-4-05	B1b	shall	Upon completion of the plan review, the director shall send written notification of deficiencies in the plan, if any are found, to the QDC and provide the QDC a reasonable opportunity to address such deficiencies.	6111.51	State general authority		no	no	yes
3745-4-05	B1b	shall	A plan submitted by a QDC (level 2 or level 3) not disapproved within sixty days of the initial submittal or, where a notification of deficiency has been issued, within sixty days of any revised submittal, shall be considered to have been approved.	6111.51	State required ORC 6111.53 (C)		no	no	no
3745-4-05	B1c	shall	A plan submitted by a QDC (level 2 or 3) not disapproved within sixty days of the initial submittal or, where a notification of deficiency has been issued, within sixty days of any revised submittal, shall be considered to have been approved.	6111.51	State required ORC 6111.53 (C)		no	no	no
3745-4-05	B1d	shall	The director shall disapprove a site-specific plan that does not include the certification statement in paragraph (B)(4)(e) of this rule.	6111.51	State required ORC 6111.53 (D)		no	no	yes
3745-4-05	B2	shall	In preparing the project study plan, the QDC shall be responsible for selecting the appropriate field and laboratory methods, including quality assurance and quality control steps, that fit the objectives and purpose of the project.	6111.51	State general authority		no	no	no
3745-4-05	B2	shall	Explicit approval of the specific methods employed shall occur when Ohio EPA reviews project study plans.	6111.51	State general authority		no	no	no
3745-4-05	B3	shall	All laboratories that perform analysis under a level 2 study plan shall implement a quality assurance program and shall document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-05	B3	shall	All laboratories that perform analysis under a level 2 study plan shall implement a quality assurance program and shall document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-05	B4	shall	QDCs choosing to submit data to Ohio EPA shall submit all collected data.	6111.51	State required ORC 6111.53 (D)		no	no	no
3745-4-05	B4	shall	Submission of data may be done at any time, but shall be done no later than one year after completion of the study identified in the project study plan.	6111.51	State general authority		no	no	no
3745-4-05	B4	shall	The following shall be submitted:	6111.51	State general authority		no	no	no
3745-4-05	B5	shall	In addition to the information required by paragraph (B)(4) of this rule, the QDC, upon request of the director, shall provide quality assurance and quality control documentation for all laboratories that were used to analyze any data collected pursuant to the approved project study plan.	6111.51	State general authority		no	no	no
3745-4-05	B6	shall	. The director shall review data submissions to verify that they were submitted by a QDC, that appropriate test methods and quality control quality assurance practices were used, and that the data reporting requirements are complete.	6111.51	State general authority		no	no	yes
3745-4-05	B6	shall	The director shall provide written notification to the person submitting the data as to whether the data have been approved and at what level the data qualify as credible data.	6111.51	state required 6111.53 (E)		no	no	yes
3745-4-05	C	shall	The director from time to time shall publish examples of acceptable level 2 analytical methods for commonly sampled parameters.	6111.51	State general authority		no	no	yes
3745-4-05	Appendix A - 15	shall	All voucher materials shall be kept for at least ten years.	6111.51	State general authority		no	no	no
3745-4-05	Appendix A - 3	must	If persons who are not level 2 or level 3 qualified data collectors are expected to assist with sample collection, sample analysis, or data entry, the plan must include detailed procedures (e.g., training, testing, follow-ups) for the supervision of those persons who are not level 2 or level 3 qualified data collectors.	6111.51	State general authority		no	no	no
3745-4-05	Appendix B	shall	All laboratories that perform analysis under a level 2 study plan shall implement a quality assurance program and shall document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-05	Appendix B	shall	All laboratories that perform analysis under a level 2 study plan shall implement a quality assurance program and shall document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-05	Appendix B - 9e	required	A description of quality control procedures that are required and followed for each method.	6111.51	State general authority		no	no	no
3745-4-06	A	shall	Except as provided by paragraph (D) of rule 3745-4-01 of the Administrative Code, all data submitted to the director for consideration as level 3 credible data shall be collected and submitted by level 3 qualified data collectors (QDCs) approved by the director pursuant to rule 3745-4-03 of the Administrative Code.	6111.51	State general authority		no	no	no
3745-4-06	A	shall	The director shall accept the data as level 3 credible data provided the requirements of this rule are met.	6111.51	state required orc 6111.53 (C)		no	no	yes

3745-4-06	A	shall	The director shall have sole authority in determining whether data meet these requirements.	6111.51	State general authority		no	no	yes
3745-4-06	B	shall	Data submitted by a QDC shall meet the following minimum requirements to be accepted as level 3 credible data:	6111.51	State general authority		no	no	no
3745-4-06	B1	shall	Adherence to a study plan. Persons submitting data to Ohio EPA as a QDC under section 6111.53 of the Revised Code shall prepare and adhere to a project study plan.	6111.51	state required orc 6111.53 (C)		no	no	no
3745-4-06	B1a	shall	The QDC shall prepare and submit to the director for approval a project study plan using the guidelines presented in appendix A to this rule.	6111.51	State general authority		no	no	no
3745-4-06	B1b	shall	Upon completion of the plan review, the director shall send written notification of deficiencies in the plan, if any are found, to the QDC and provide the QDC a reasonable opportunity to address such deficiencies.	6111.51	State general authority		no	no	yes
3745-4-06	B1b	shall	A plan submitted by a level 3 QDC not disapproved within sixty days of the initial submittal or, where a notification of deficiency has been issued, within sixty days of any revised submittal, shall be considered to have been approved.	6111.51	State required ORC 6111.53 (C)		no	no	no
3745-4-06	B1c	shall	A plan submitted by a level 3 QDC not disapproved within sixty days of the initial submittal or, where a notification of deficiency has been issued, within sixty days of any revised submittal, shall be considered to have been approved.	6111.51	State required ORC 6111.53 (C)		no	no	no
3745-4-06	B1d	shall	The director shall disapprove a site-specific plan that does not include the certification statement in paragraph (B)(4)(f) of this rule.	6111.51	State required ORC 6111.53 (D)		no	no	yes
3745-4-06	B2	shall	In preparing the project study plan, the QDC shall be responsible for selecting the appropriate field and laboratory methods, including quality assurance and quality control steps, that fit the objectives and purpose of the project.	6111.51	State general authority		no	no	no
3745-4-06	B2	shall	Explicit approval of the specific methods employed in the study shall occur when Ohio EPA reviews project study plans.	6111.51	State general authority		no	no	yes
3745-4-06	B3	shall	All laboratories that perform analysis under a level 3 study plan shall be accredited, successfully participate in annual proficiency testing, and implement a quality assurance program as described in this paragraph.	6111.51	State general authority		no	no	no
3745-4-06	B4	shall	QDCs choosing to submit data to Ohio EPA shall submit all collected data.	6111.51	State required ORC 6111.53 (D)		no	no	no
3745-4-06	B4	shall	Submission of data may be done at any time, but shall be done no later than one year after completion of the study identified in the project study plan.	6111.51	State general authority		no	no	no
3745-4-06	B4	shall	The following shall be submitted in hard copy or electronic format:	6111.51	State general authority		no	no	no
3745-4-06	B5	shall	In addition to the information required by paragraph (B)(4) of this rule, the QDC, upon request of the director, shall provide quality assurance and quality control documentation for all laboratories which were used to analyze any data collected pursuant to the approved project study plan.	6111.51	State general authority		no	no	no
3745-4-06	B6	shall	The director shall review data submissions to verify that the data submissions were submitted by a QDC, that appropriate test methods and quality control and quality assurance practices were used, and that the data reporting requirements are complete.	6111.51	State general authority		no	no	yes
3745-4-06	B6	shall	The review shall ensure that all components of the plan for the collection of data were followed	6111.51	State general authority		no	no	yes
3745-4-06	B6	shall	The director shall provide written notification to the person submitting the data as to whether the data have been approved, and at what level the data qualify as credible data.	6111.51	state required 6111.53 (E)		no	no	yes
3745-4-06	B6	shall	The director shall approve or disapprove the data no later than one year from the submittal of such data to Ohio EPA.	6111.51	State general authority		no	no	yes
3745-4-06	C	shall	Any level 3 methods shall have a degree of accuracy commensurate with the purpose for which the data will be used.	6111.51	state required 6111.53 (A)		no	no	no
3745-4-06	C	shall	The person submitting data as a level 3 QDC shall be responsible for the selection and proper execution of the test methods as described in paragraph (B)(2) of this rule.	6111.51	State general authority		no	no	no
3745-4-06	B3b	require	Laboratories analyzing level 3 data are required to successfully participate in annual proficiency testing (PT) studies administered by providers that are accredited by the national institute of standards and technology (NIST) national voluntary laboratory accreditation program (NVLAP).	6111.51	State general authority		no	no	no
3745-4-06	B3c	require	Laboratories analyzing level 3 data are required to implement a quality assurance program and document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-06	B4e	require	A certification that, to the best of the QDC's knowledge and belief, the data were collected in accordance with the procedures required by the approved project study plan.	6111.51	State general authority		no	no	no

3745-4-06	B5	require	. In addition to the information required by paragraph (B)(4) of this rule, the QDC, upon request of the director, shall provide quality assurance and quality control documentation for all laboratories which were used to analyze any data collected pursuant to the approved project study plan.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A - 6	shall	For each sampling location the following information shall be included: sampling location latitude and longitude; sampling location river mile; general locational information; the U.S. geological survey HUC 8 number and name; and the purpose for data collection at each sampling location.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A - 9	shall	Examples of anticipated work products that shall be submitted to the director include, but are not limited to, the following: measured chemical, stream habitat, and biological data; beneficial use attainment statistics; biological index metrics and scores; water quality criteria exceedences; and stream habitat index metrics and scores.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A - 10	shall	The list shall include the name, qualified data collector number, address, electronic mail address, and phone number of all qualified data collectors and shall identify the qualified data collectors designated as the lead project managers.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A - 10	shall	The list shall include the name, qualified data collector number, address, electronic mail address, and phone number of all qualified data collectors and shall identify the qualified data collectors designated as the lead project managers.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A - 14	shall	All voucher materials shall be kept for at least ten years.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A	shall	Except as provided in this appendix, level 3 project study plans that use biological assessment methods shall provide for the collection of both fish and macroinvertebrate data at all sampling locations.	6111.51	State general authority		no	no	no
3745-4-06	Appendix A	shall	If the level 3 project study plan does not include provisions for the collection of both fish and macroinvertebrates at all sampling locations, the project study plan shall include a detailed explanation of the circumstances, issues, and complexities associated with the proposed sampling location which preclude the use of both organism groups.	6111.51	State general authority		no	no	no
3745-4-06	Appendix B	shall	All laboratories that perform analysis under a level 3 study plan shall implement a quality assurance program and shall document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-06	Appendix B	shall	All laboratories that perform analysis under a level 3 study plan shall implement a quality assurance program and shall document all elements of the program in a quality assurance manual (QAM) or quality assurance plan (QAP).	6111.51	State general authority		no	no	no
3745-4-06	Appendix B - 9e	require	A description of quality control procedures that are required and followed for each method.	6111.51	State general authority		no	no	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-5-01	T2	must	"Trading ratio" means the mass of a pollutant that must be reduced to receive a water quality credit.	6111.03, 6111.04	state optional - general authority		no	no	no
3745-5-01	T2	must	[Comment: A trading ratio of one to one or "1:1" means that one pound of a pollutant must be removed to receive a water quality credit for the reduction of one pound of that pollutant. A trading ratio of two to one or "2:1" means that two pounds of a pollutant must be removed to receive a water quality credit for the reduction of one pound of that pollutant.]	6111.03, 6111.04	state optional - general authority		no	no	no
3745-5-01	T2	must	[Comment: A trading ratio of one to one or "1:1" means that one pound of a pollutant must be removed to receive a water quality credit for the reduction of one pound of that pollutant. A trading ratio of two to one or "2:1" means that two pounds of a pollutant must be removed to receive a water quality credit for the reduction of one pound of that pollutant.]	6111.03, 6111.04	state optional - general authority		no	no	no
3745-5-01	W2	must	"Water quality baseline" means the level of pollutant reduction that must be achieved before water quality credits can be generated.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-01	W3	require	Water quality credits are generated by pollutant reductions that are in excess of water quality baseline requirements, that occur within a specified period of time, and that are greater than those required by a regulatory requirement, such as an NPDES permit, or the wasteload allocation established under a TMDL.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-02	C - comment	must	In making this review, the director must consider the continued need for the rule, the nature of any complaints or comments received, and any relevant factors that may have changed in the subject matter affected by the rule.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	yes
3745-5-02	C - comment	require	[Comment: Pursuant to section 106.03 of the Revised Code, every five years state agencies are required to review each of their rules to determine if the rules should continue without change, be amended or be rescinded.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no - comment.	yes
3745-5-03	A	shall	The use of a water quality credit shall conform to the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-03	B	shall not	A water quality credit shall not be developed for a bioaccumulative chemical of concern.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-03	C	shall not	A stewardship credit shall not be used to meet an NPDES permit limit or other regulatory obligation.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-03	F	shall	Nonpoint source load reductions that result from the implementation of BMPs shall conform to the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-03	D3	require	Load reductions that are achieved by implementing BMPs or habitat restoration projects are eligible for the generation of water quality credits provided the practices or projects are not implemented to comply with a nutrient management plan required under an NPDES permit or a permit-to-operate.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-03	D2	may not	A concentrated animal feeding operation may not use water quality credits to comply with the no discharge technology limit that applies to a CAFO production area.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	A	shall	Water quality trading activities shall be in accordance with this chapter and all other applicable rules and laws.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	B	shall	An approved water quality trading management plan shall be effective for up to five years from the date it is approved by the director.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	C	shall	Except as provided in paragraph (D) of this rule, after January 1, 2007, no person shall participate in water quality trading activities without an approved water quality trading management plan.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	C2	shall	When a water quality trading management plan application is not part of an NPDES permit, the plan application fee and plan review fee, in accordance with section 3745.11 of the Revised Code shall apply.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	yes	no
3745-5-04	D	shall	For any water quality trading activities in effect on January 1, 2007, a water quality trading management plan shall be submitted to the director as follows:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	D1a	shall	Until the date that a water quality trading management plan is approved by the director, water quality trading activities shall be in accordance with the great Miami river watershed water quality credit trading program operations manual, dated February 8, 2005, as endorsed by Ohio EPA.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	D1b	shall	Any changes to the operations manual shall be mutually agreeable to the director and all permittees, organizations and agencies responsible for implementing the program.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	D2a	shall	Until the date that a water quality trading management plan is approved by the director, water quality trading activities shall be in accordance with the alpine cheese phosphorus nutrient trading plan, dated January 1, 2006, as required by NPDES permit number 3PH00100.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	D2b	shall	Any changes to the trading plan shall be mutually agreeable to the director and all permittees, organizations and agencies responsible for implementing the program.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no

3745-5-04	F	shall	After applying the appropriate trading ratio, all nonpoint source pollutant reductions funded by a permittee shall be available as water quality credits for the permittee to use in meeting its NPDES permit effluent limits subject to the prohibitions and restrictions of rule 3745-5-03 of the Administrative Code or limits on trading activities established by the director pursuant to paragraphs (B) and (C) of rule 3745-5-11 of the Administrative Code.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	G	shall	Any water quality trading activity in impaired waters, where there is not an approved TMDL, shall achieve progress towards meeting water quality standards.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	H	shall	Water quality trading activities in impaired waters, with an approved TMDL, shall be consistent with the assumptions and requirements upon which the TMDL is established and shall not delay implementation of an approved TMDL.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	H	shall not	Water quality trading activities in impaired waters, with an approved TMDL, shall be consistent with the assumptions and requirements upon which the TMDL is established and shall not delay implementation of an approved TMDL.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	K	shall	A qualified soil and water conservation professional shall do all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	A	require	The director may deny any water quality trading management plan application that does not contain the required information.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	yes
3745-5-04	C1	require	When a water quality trading management plan application is part of an NPDES permit, the only application fee required is the NPDES permit application fee, in accordance with section 3745.11 of the Revised Code.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	D2	require	The alpine cheese phosphorus nutrient trading program was required to submit a water quality trading management plan to the director no later than January 1, 2017.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	D2a	require	Until the date that a water quality trading management plan is approved by the director, water quality trading activities shall be in accordance with the alpine cheese phosphorus nutrient trading plan, dated January 1, 2006, as required by NPDES permit number 3PH00100.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-04	K5	require	If required by the director, conduct water quality monitoring to obtain data to evaluate BMP effectiveness and to evaluate and improve the method used to quantify pollutant load reductions and water quality credits.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-05	A	shall	All water quality management plan applications shall be developed in accordance with this chapter.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-05	B	shall	Any person proposing to modify water quality trading activities that are in an approved water quality trading management plan or any person that proposes to expand a watershed water quality trading area shall submit to the director a new water quality trading management plan application.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-05	B	shall	The new water quality trading management plan application shall be submitted to the director at least six months prior to modifying any water quality trading activities or expanding a water quality trading area.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-05	C	shall	A water quality trading management plan renewal application shall be submitted to the director at least six months prior to an approved water quality trading management plan's expiration date.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-05	C	shall	A water quality trading management plan renewal application shall include all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-05	D	require	The director may waive or reduce the scope of the evaluation and assessment required under paragraphs (C)(1) and (C)(2) of this rule based on consideration of factors, such as the number of trades that have occurred, the number of nonpoint source BMPs that have been implemented, the status of the BMPs and the overall participation level in a trading program.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	A	shall	A water quality trading management plan application shall satisfy all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	B	shall	When point source trading occurs between permittees, the water quality trading management plan application shall meet all of the following requirements:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	B1	shall	Such applications shall be submitted as proposed modifications of the respective NPDES permits.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	B1	shall	Applications for a water quality trading management plan by two or more point sources shall be submitted at approximately the same time.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	C	shall	In addition to meeting all requirements in paragraphs (A) and (B)(1) to (B)(13) of this rule, when point source-nonpoint source trading occurs between one permittee and one or more nonpoint sources, the water quality trading management plan application shall also include all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	C3	shall	The hydrologic assessment units shall be identified using either the ten digit or twelve digit hydrologic unit code as appropriate for the size of the water quality trading area.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	D	shall	In addition to meeting all the requirements in paragraphs (A), (B)(2) to (B)(13), and (C)(1) to (C)(4) of this rule, an application for watershed trading shall include the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	D2	shall	The hydrologic assessment units shall be identified using either the ten digit or twelve digit hydrologic unit code as appropriate for the size of the water quality trading area.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no

3745-5-06	E	shall	If required, ambient water quality monitoring shall be conducted in accordance with rule 3745-5-14 of the Administrative Code.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	C4c	require	If required by the director, collecting water quality monitoring data for evaluating BMP effectiveness.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-06	E	require	The director may require a schedule for conducting ambient water quality monitoring to determine if there have been negative impacts to water quality and to document the presence or absence of improvements in water quality	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	yes
3745-5-06	E	require	If required, ambient water quality monitoring shall be conducted in accordance with rule 3745-5-14 of the Administrative Code.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-07	A	shall	A water quality credit for each pollutant shall meet all of the following requirements:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-07	B	require	In accordance with an approved water quality trading management plan, credits may be held by a trading program as part of the corrective measures required under paragraph (B)(13) of rule 3745-5-06 of the Administrative Code for addressing situations when a permittee discovers that water quality credits are insufficient to achieve compliance with an NPDES permit.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-08	A	shall	Where methods and procedures (e.g., sampling protocols, monitoring frequencies) are specified by federal regulations or in NPDES permits, they shall be used where applicable for measuring pollutant loads and determining compliance of permittees that engage in water quality trading.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-08	B	shall	Where methods and procedures are not specified by other applicable rules and laws or an NPDES permit, a water quality credit shall be calculated as follows	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-09	A	shall	For permittees in an area where there is an approved TMDL, the water quality baseline shall be the lower of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-09	B	shall	For permittees in an area where there is not an approved TMDL or where water quality fully supports designated uses assigned in Chapter 3745-1 of the Administrative Code, the water quality baseline shall be the lower of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-09	C	shall	For nonpoint sources, the water quality baseline shall be the pollutant load associated with existing land uses and management practices.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-09	C	shall	Existing management practices shall comply with any applicable federal, state or local requirements and shall be established as follows	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-09	C	shall	Existing management practices shall comply with any applicable federal, state or local requirements and shall be established as follows	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-09	D	shall	For storm water sources regulated under an NPDES permit, the water quality baseline shall be either of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-10	A	shall	For water quality trading activities between two permittees, a water quality credit shall be calculated using the trading ratio, where one pound of pollutant reduction equals one pound of water quality credit for that pollutant.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-10	B	shall	For water quality trading activities between a permittee and a nonpoint source, the water quality credit shall satisfy either of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-11	B4	shall	Establishing a minimum treatment level a plant shall meet before engaging in water quality trading activities.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	yes
3745-5-11	A2	require	Requires implementation of actions from the approved water quality trading management plan that are included in the NPDES permit and specifies that failure to implement these actions is a violation of the permit.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-11	A3	require	Requires the permittee to notify the director upon discovering that water quality credits are insufficient to achieve compliance with an NPDES permit limit and outlines the actions required by paragraph (B) of rule 3745-5-12 of the Administrative Code.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-11	A3	require	Requires the permittee to notify the director upon discovering that water quality credits are insufficient to achieve compliance with an NPDES permit limit and outlines the actions required by paragraph (B) of rule 3745-5-12 of the Administrative Code.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-11	A4	require	Requires submittal of an annual report that identifies the actions implemented by the permittee in the previous twelve-month period.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-11	A5	require	Provides that the director may revoke the approved plan and require compliance with water quality based effluent limits based on the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-12	A	shall	Upon request by the director or the director's authorized representative, any permittee, qualified soil and water conservation professional or other person participating in the administration of an approved water quality trading management plan shall make available, within a reasonable time for inspection and copying, all records pertaining to those activities, including the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-12	B	shall	Upon discovering that water quality credits are insufficient to achieve compliance with an NPDES permit, a permittee shall complete all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-12	C3a	require	Require the submittal of a new water quality trading management plan application, including all applicable fees, to be submitted to Ohio EPA within thirty days.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-12	C5	require	The director may require an evaluation of water quality trading activities that includes all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no

3745-5-12	C6	require	The director may reduce the scope of the evaluation required under paragraph (C)(5) of this rule based on consideration of factors, such as the number of trades that occurred, the number of nonpoint source BMPs that were implemented, the status of the BMPs, and the overall participation level in the trading activities.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-13	intro	shall	Any person submitting a water quality trading management plan for approval shall meet all of the following requirements:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-13	C	shall	Each public notice shall provide all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-14	A	shall	The ambient water quality monitoring plan shall include sufficient information for the director to do the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-14	B	shall	The ambient water quality monitoring plan shall provide all of the following:	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-14	C	require	The director may require the applicant to submit additional information if the information submitted pursuant to paragraph (B) of this rule will not enable the director to determine if the trading activities have resulted in positive or negative impacts to water quality.	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no
3745-5-14	Comment	require	[Comment: For guidance on study plan design, sample collection, analytical methods, data assessment, and quality assurance and quality control procedures that are appropriate for the ambient water quality monitoring required under this rule, see the appendices to rule 3745-4-05 of the Administrative Code.]	6111.03, 6111.04	state optional - general authority ORC 6111.03 (A)		no	no	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-11-01	F	require	"Small flow on-site sewage treatment system" means a system, other than a household sewage treatment system, that treats not more than one thousand gallons of sewage per day and that does not require a national pollutant discharge elimination system permit under section 6111.03 of the Revised Code or an injection well drilling or operating permit issued under section 6111.043 of the Revised Code.	6111.03, 6111.04, 6111.44	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	B	shall	The director shall specify in the order or permit condition imposing the connection ban the geographical area to which the ban applies.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	yes
3745-11-02	C	shall	A connection ban shall be imposed upon both:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	E4	shall	For the purposes of this rule, the installation of a new sewer line routed directly to the treatment works shall be considered an extension of the sewerage system.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	G	shall not	This paragraph shall not apply to such facilities as are necessary to comply with orders or permit conditions issued by the director or a court of law.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	H	shall	Nothing in this rule shall prohibit connection to a sewerage system or construction and operation of a treatment works if:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	I	shall	The director shall specify in the order or permit condition imposing the ban one of the following as the event upon which the director will modify the permit to remove the condition imposing the ban, or revoke the order imposing the ban:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	yes
3745-11-02	A	require	Permits required by section 6111.04 of the Revised Code may contain conditions imposing connection bans, and orders of the director issued pursuant to paragraph (H) of section 6111.03 of the Revised Code may impose connection bans.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	E	prohibit	A standard connection ban prohibits the person upon which it is imposed from causing or allowing the extension of or additional connections to the sewerage system.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	F	prohibit	A special connection ban prohibits the person upon which it is imposed from causing or allowing construction or installation of household sewage treatment systems, or small flow on-site sewage treatment systems, or both, as appropriate.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-02	H	prohibit	Nothing in this rule shall prohibit connection to a sewerage system or construction and operation of a treatment works if:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	A	shall	Applications for variances shall be in a form and contain such information as the director may require.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	A	shall	The application shall include at least:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	D	shall	The director shall grant or deny the variance by letter within sixty days of the date on which a complete application for a variance is received.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	yes
3745-11-03	D	shall	Upon granting or denying a variance, the director shall promptly notify the appropriate local official of the director's action.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	yes
3745-11-03	E	shall	Variance applications shall be acted upon and challenged in accordance with provisions of Chapters 3745. and 119. of the Revised Code and Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	A	must	Any person desiring a variance from a ban imposed under this chapter must apply in writing to the director.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	A	require	Applications for variances shall be in a form and contain such information as the director may require.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	C	require	The director may grant a variance from a connection ban whenever, in the director's judgment, compelling public need, extreme individual hardship, or other extraordinary circumstances require that the variance be granted	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no
3745-11-03	C2	require	The proposed facility will be used primarily as the dwelling place of a person whose physical or mental health requires that person to live within the area of the ban;	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	state optional - 6111.03 (H)(3)		no	no	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-32-01	B	shall	"401 certification" means a Section 401 water quality certification from Ohio EPA, pursuant to section 401 of the act, Chapter 6111. of the Revised Code and this chapter, that any discharge, as set forth in section 401, shall comply with sections 301, 302, 303, 306 and 307 of the act.	6111.03	Federal	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387)	Yes	Yes	No
3745-32-01	D	require	"Applicant" means any person required to obtain a 401 certification from the Ohio EPA.	6111.03	Federal	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387)	Yes	Yes	No
3745-32-01	F2a	require	These discharges are subject to section 402 of the Clean Water Act even though the extraction and deposit of such material may require a permit from the corps or applicable state.	6111.03	State General Authority		Yes	No	No
3745-32-01	K	require	"Letter of permission" means a corps permit issued through an abbreviated processing procedure which includes coordination with federal and state fish and wildlife agencies, as required by the fish and wildlife coordination act and a public interest evaluation but without the publishing an individual public notice.	6111.03	Federal	33 C.F.R. Part 325.2(e)(1)	Yes	Yes	No
3745-32-01	M	require	"Ohio EPA" means the Ohio environmental protection agency or its director, as the context or other law or regulations may require.	6111.03	State General Authority		Yes	No	No
3745-32-02	A	shall	Any applicant for a federal license or permit to conduct any activity which may result in a discharge of dredged or fill material to a water of the state shall apply for and obtain a 401 certification from Ohio EPA.	6111.03	Federal	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387)	yes	Yes	no
3745-32-02	B	shall	No person shall engage in an activity requiring a 401 certification prior to obtaining that certification from Ohio EPA.	6111.03	Federal	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387)	Yes	Yes	No
3745-32-02	C	shall	No 401 certification issued pursuant to this chapter shall be effective until all applicable fees have been paid.	6111.03, 3745.114	State required		Yes	No	No
3745-32-02	D2	require	The discharge of dredged or fill material for any activity that is not prohibited by or otherwise subject to regulation under Section 404 of the act as specifically set forth in 33 C.F.R. 323.4 provided that no other federal license or permit is required.	6111.03	State General Authority		Yes	No	No
3745-32-02	D2	prohibit	The discharge of dredged or fill material for any activity that is not prohibited by or otherwise subject to regulation under Section 404 of the act as specifically set forth in 33 C.F.R. 323.4 provided that no other federal license or permit is required.	6111.03	State General Authority and Federal Required	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387) and 33 C.F.R. 323.4	Yes	No	No
3745-32-03	A	require	The filing of an application for a federal permit or license for which a 401 certification is required does not constitute an application for a 401 certification with the state of Ohio	6111.03, 6111.30	State required		Yes	Yes	No
3745-32-03	A2	require	If the federal permit sought is a nationwide permit, a regional permit, or a letter of permission issued by the corps and Ohio EPA has issued a certification for the federal permit, no further application is required to be submitted to Ohio EPA under this chapter provided that the project meets all of the terms and conditions for coverage under the certification or the director has authorized the project to proceed under the terms of the general certification based on a case specific determination of the environmental impacts of the project.	6111.03	State General Authority		Yes	No	No
3745-32-03	B1	shall	Any person requesting authorization for an activity that requires a 401 certification shall comply with the application procedures set forth in this rule.	6111.03, 6111.30	State Required and State General Authority		Yes	Yes	No
3745-32-03	B1	shall	The director shall prescribe the form and required content of the application for a 401 certification.	6111.03, 6111.30	State Required		Yes	Yes	Yes
3745-32-03	B1	shall	Additional information shall be submitted in accordance with the antidegradation requirements in rules 3745-1-05 and 3745-1-54 of the Administrative Code.	6111.03, 6111.12	State Required		Yes	Yes	No
3745-32-03	B1	require	Any person requesting authorization for an activity that requires a 401 certification shall comply with the application procedures set forth in this rule.	6111.03, 6111.30	State Required and State General Authority		Yes	Yes	No
3745-32-03	B1	require	The director shall prescribe the form and required content of the application for a 401 certification.	6111.03, 6111.30	State Required		Yes	Yes	Yes
3745-32-03	B2	shall	Any application for a 401 certification subject to the provisions of this rule shall be submitted on forms provided by the director and completed in accordance with the corresponding application instructions.	6111.03, 6111.30	State Required		Yes	Yes	No
3745-32-03	B2	shall	The application shall be submitted no later than forty-five days after the publication of the corps 404 public notice, if applicable, and shall include the following:	6111.03, 6111.30	State Required and State General Authority		Yes	Yes	No
3745-32-03	B2	shall	The application shall be submitted no later than forty-five days after the publication of the corps 404 public notice, if applicable, and shall include the following:	6111.03, 6111.30	State Required and State General Authority		Yes	Yes	No

3745-32-03	B2b	shall	The Ohio rapid assessment method shall include complete and accurate forms, including the background information, scoring boundary worksheet, narrative rating, quantitative rating, and wetland categorization worksheets completed and submitted in accordance with the procedures outlined in the Ohio rapid assessment method manual.	6111.03, 6111.30	State Required and State General Authority		Yes	Yes	No
3745-32-03	B2e	shall	Photographs shall be clearly labeled with the name, direction, and date.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	B2e	must	Photographs must accurately depict the quality of the water of the state and may not include a majority of dying or dead vegetation and excessive cover due to seasonal conditions that vegetation and substrates cannot be observed, such as leaf litter, snow, or ice.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	B2e	require	Photographs deemed to be insufficient of representing the water of the state will be required to be retaken once seasonal conditions are appropriate.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	B2e	may not	Photographs must accurately depict the quality of the water of the state and may not include a majority of dying or dead vegetation and excessive cover due to seasonal conditions that vegetation and substrates cannot be observed, such as leaf litter, snow, or ice.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	B2g	require	(g)Descriptions, schematics, and appropriate economic information concerning the applicant's alternatives analysis prepared in accordance with 40 C.F.R. Part 230 and required by rules 3745-1-05 and 3745-1-54 of the Administrative Code.	6111.03, 6111.12, 6111.30	State and Federal Required	40 C.F.R. Part 230	Yes	Yes	No
3745-32-03	B3	shall	A person that applies for a 401 certification under Chapter 6111. of the Revised Code and this chapter shall pay fees in accordance with section 3745.114 of the Revised Code.	6111.03, 3745.114	State Required		Yes	Yes	No
3745-32-03	C1	shall	Not later than fifteen business days after the receipt of an application for an individual 401 certification, the director shall notify the applicant whether the application is complete.	6111.03, 6111.30	State Required		Yes	Yes	Yes
3745-32-03	C1a	shall	If the application is not complete, the director shall include in the notice an itemized list of the information or materials that are necessary to complete the application.	6111.03, 6111.30	State Required		Yes	Yes	Yes
3745-32-03	C1a	shall	No further processing of the application shall take place until the itemized list of information or materials requested by the director is received and determined to be complete.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	C1c	must	If the application is not complete, and a corps public notice regarding the application for a 404 permit has been published, all the items required by paragraph (B) of this rule must be received within one hundred eighty days of the corps public notice date.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	C1c	require	If the application is not complete, and a corps public notice regarding the application for a 404 permit has been published, all the items required by paragraph (B) of this rule must be received within one hundred eighty days of the corps public notice date.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	C3	require	As it is used in this rule, "complete application" means an application in which all of the items required by paragraph (B) of this rule have been provided and the items are complete. A complete application does not equate to an approvable project.	6111.03, 6111.30	State General Authority		Yes	No	No
3745-32-03	D1	shall not	The director shall not issue a 401 certification unless the director determines that the applicant has demonstrated that the discharge of dredged or fill material to waters of the state or the creation of any obstruction or alteration in waters of the state, will not do any of the following:	6111.03, 6111.30	State and Federal Required	Section 401 of the Clean Water Act (33 U.S.C. §1251-1387)	Yes	Yes	Yes
3745-32-03	D2	shall not	Except as provided in paragraph (D)(3) of this rule, the director shall not issue a 401 certification for any harbor or navigation maintenance activities proposing to deposit dredged material in any part of lake Erie that is within the territorial boundaries of this state or in the direct tributaries of lake Erie within this state unless the director has determined the following:	6111.03, 6111.32	State General Authority		Yes	No	Yes
3745-32-03	D2a	shall	Dredged material found to be unsuitable for the deposit of dredged material pursuant to this paragraph shall be placed in a confined disposal facility or an upland location determined to be protective of public health and the environment	6111.03, 6111.32	State Required		Yes	Yes	No
3745-32-03	D3	shall not	The preclusions set forth in paragraph (D)(2) of this rule shall not apply to placing the material into a confined disposal facility that is located in lake Erie or the direct tributaries or the discharge of de minimus dredged material associated with dewatering operations necessary to facilitate placement of the dredged material in a confined disposal facility or upland location.	6111.03, 6111.32	State General Authority		Yes	No	No
3745-32-03	E1	shall	The director shall take an action on a 401 certification for an activity in waters of the state within one hundred eighty days of receipt of a complete application pursuant to paragraph (A) of this rule.	6111.03, 6111.30	State Required		Yes	Yes	Yes
3745-32-03	E2	shall	An action on a 401 certification shall be taken and may be challenged in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	3745.07, 6111.03	State Required		Yes	Yes	Yes
3745-32-03	F1	shall	An applicant seeking to modify a 401 water quality certification shall notify Ohio EPA in writing, setting forth a description of the proposed modifications and the reasons therefore.	6111.03	State General Authority		Yes	No	No
3745-32-03	F1	require	The director may approve, approve with conditions, or deny any request for modification, or require the applicant to apply for and obtain a new 401 certification if the scope or purpose of the project is changed beyond that authorized in the original certification.	6111.03	State General Authority		Yes	No	No
3745-32-03	F1a	shall	Approvals or approvals with conditions, of the modification, shall be issued as final actions and subject to the public notice requirements of Chapter 3745-49 of the Administrative Code.	3745.07, 6111.03	State Required		Yes	Yes	Yes
3745-32-03	F2	shall	A 401 certification shall be modified and may be challenged in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	3745.07, 6111.03	State Required		Yes	Yes	Yes

3745-32-03	G2	shall	The person to whom the 401 certification was originally issued shall continue to be responsible for ensuring that the conditions of the 401 certification are fulfilled, and shall be liable for any violations thereof, until such time as Ohio EPA receives documentation required by paragraph (G)(1) of this rule and an official notification of transfer is issued identifying the new holder of the certification.	6111.03	State General Authority		Yes	No	No
3745-32-03	G2	shall	The person to whom the 401 certification was originally issued shall continue to be responsible for ensuring that the conditions of the 401 certification are fulfilled, and shall be liable for any violations thereof, until such time as Ohio EPA receives documentation required by paragraph (G)(1) of this rule and an official notification of transfer is issued identifying the new holder of the certification.	6111.03	State General Authority		Yes	No	No
3745-32-03	G2	require	The person to whom the 401 certification was originally issued shall continue to be responsible for ensuring that the conditions of the 401 certification are fulfilled, and shall be liable for any violations thereof, until such time as Ohio EPA receives documentation required by paragraph (G)(1) of this rule and an official notification of transfer is issued identifying the new holder of the certification.	6111.03	State General Authority		Yes	No	No
3745-32-03	H2	shall	A 401 certification shall be revoked and may be challenged in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	3745.07, 6111.03	State Required		Yes	Yes	Yes
3745-32-03	I1	shall	A 401 certification shall expire upon the expiration of the applicable federal license or permit.	6111.03	State General Authority		Yes	No	No
3745-32-03	I2	shall	A 401 certification shall remain valid if the applicable federal license or permit is extended so long as no additional water quality impacts beyond those authorized in the original or modified 401 certification will result from the renewal of that certification.	6111.03	State General Authority		Yes	No	No
3745-32-03	I2	must	If additional water quality impacts beyond those authorized in the original or modified 401 certification are proposed, the applicant must apply for a new 401 certification in accordance with the criteria established in paragraph (B) of this rule or a 401 modification in accordance with the criteria established in paragraph (F) of this rule.	6111.03	State General Authority		Yes	No	No
3745-32-03	J2	shall	The director shall provide a written explanation to an applicant for a 401 certification of the basis for the proposed denial of the application, if applicable.	6111.03	State General Authority		Yes	No	Yes
3745-32-03	J3	shall	A 401 certification shall be denied and may be challenged in accordance with Chapters 3745-47 and 3745-49 of the Administrative Code.	3745.07, 6111.03	State Required		Yes	Yes	Yes
3745-32-03	K2	require	Prior to the issuance of a 401 certification or as a condition of any 401 certification, the director may require that the applicant perform various environmental quality tests to ensure adequate protection of water quality and human health, including, but not limited to, chemical analyses of water, sediment or fill material, and bioassays and biological monitoring.	6111.03	State General Authority		Yes	No	No
3745-32-03	L1	shall	To the extent that the time frames for certification do not allow the application to be processed in accordance with normal procedures, the director shall issue the certification as a final action and then require and process a complete application in accordance with paragraph (L)(2) of this rule.	6111.03	State General Authority		Yes	No	Yes
3745-32-03	L1	require	To the extent that the time frames for certification do not allow the application to be processed in accordance with normal procedures, the director shall issue the certification as a final action and then require and process a complete application in accordance with paragraph (L)(2) of this rule.	6111.03	State General Authority		Yes	No	No
3745-32-03	L2	shall	Upon the expiration of the emergency, the director shall require the applicant to submit a complete application for a 401 certification that addresses the emergency fill and any additional placement of fill or dredged material into waters of the state, beyond that authorized by the emergency certification.	6111.03	State General Authority		Yes	No	Yes
3745-32-03	L2	require	Upon the expiration of the emergency, the director shall require the applicant to submit a complete application for a 401 certification that addresses the emergency fill and any additional placement of fill or dredged material into waters of the state, beyond that authorized by the emergency certification.	6111.03	State General Authority		Yes	No	No

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-33-01	intro	shall	Except as otherwise provided in this rule, the definitions in sections 6111.01 and 6111.13 of the Revised Code shall have the same meaning in this chapter as in those sections.	6111.03	General/State		yes	Yes	no
3745-33-01	R1b	shall	For determinations of reasonable potential with respect to whole effluent toxicity, the procedures in rules 3745-02-09 and 3745-33-07 of the Administrative Code shall be followed.	6111.03	General/Federal	40 CFR 122.44(d) and 40 CFR 132 Appendix F.6	yes	Yes	no
3745-33-01	A8	must	"Area of initial mixing" or "AIM" means the limited zone where discharge-induced mixing causes the effluent to mix rapidly with the receiving water such that the area may not be physically inhabitable by aquatic life. The inside mixing zone maximum criteria may be exceeded within the AIM, but must be met on the perimeter of the AIM.	6111.03	General	40 CFR 131.13	yes	No	no
3745-33-01	M2	must	"Minimum level" or "ML" means the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point.	6111.03	State/Federal	ORC 6111.13 and 40 CFR 132 Appendix F	yes	Yes	no
3745-33-01	O1	require	"Ohio EPA" means the Ohio environmental protection agency or its director, as the context or other law or regulations may require.	6111.03	State		yes	no	no
3745-33-01	A8	may not	"Area of initial mixing" or "AIM" means the limited zone where discharge-induced mixing causes the effluent to mix rapidly with the receiving water such that the area may not be physically inhabitable by aquatic life.	6111.03	General	40 CFR 131.13	yes	No	no
3745-33-01	R1aiii	may not	"Group three" pollutants have some potential based on water quality data to cause or contribute to a water quality excursion; permit requirements may not be warranted based solely on water quality considerations.	6111.03	General/Federal	40 CFR 122.44(d) and 40 CFR 132 Appendix F.6	yes	Yes	no
3745-33-02	A	shall	The director shall administer and enforce permits issued under Section 402 (a) of the act within this state, and may modify the terms and conditions thereof, in accordance with division (J) of section 6111.03 of the Revised Code.	6111.03	State		yes	Yes	yes
3745-33-02	B	shall	Each point source shall be authorized by an Ohio NPDES permit.	6111.03	Federal	CWA Section 402	yes	Yes	no
3745-33-02	B	shall	This chapter shall be administered in a manner no less stringent than the act and regulations adopted or subsequently amended by the administrator including 40 C.F.R. 122 to 125, 129 to 133, 136, 400 to 471, 501 and 503.	6111.03	State		yes	No. Still covered by 6111.03(J)	yes
3745-33-02	B	shall	The director may issue a single permit covering more than one point source, but authorized discharge levels, monitoring requirements and other appropriate requirements shall be specified for each point source.	6111.03	Federal	40 CFR 122.45(a)	yes	Yes	yes
3745-33-02	C	shall	No Ohio NPDES permit shall be required for any discharge exempted from the NPDES permit system by the act or mandatory regulations adopted thereunder, unless required by section 6111.03 of the Revised Code.	6111.03	Federal	40 CFR 122.4	yes	yes	no
3745-33-02	A	require	Any person who holds a federal NPDES permit issued under Section 402 (a) of the act is not required to obtain an Ohio NPDES permit until the permit's expiration date.	6111.03	State/Federal	40CFR 122.46, 40 CFR 123.44	yes	Yes.	no
3745-33-02	C	require	No Ohio NPDES permit shall be required for any discharge exempted from the NPDES permit system by the act or mandatory regulations adopted thereunder, unless required by section 6111.03 of the Revised Code.	6111.03	Federal	40 CFR 122.4	yes	Covered by general authority to implement NPDES program in ORC 6111.03(J)? Fed application rules clearly apply to delegated states.	no
3745-33-02	C	require	No Ohio NPDES permit shall be required for any discharge exempted from the NPDES permit system by the act or mandatory regulations adopted thereunder, unless required by section 6111.03 of the Revised Code.	6111.03	Federal	40 CFR 122.4	yes	Covered by general authority to implement NPDES program in ORC 6111.03(J)? Fed application rules clearly apply to delegated states.	no
3745-33-02	D	require	Ohio NPDES permits are required for sludge disposal facilities subject to Chapter 3745-40 of the Administrative Code	6111.03	State/Federal	40 CFR 122.1(b), ORC 6111.03(J)	yes	Yes	no
3745-33-03	A	shall	Applications for Ohio NPDES permits shall be filed only on forms approved by Ohio EPA and shall contain such information as Ohio EPA deems necessary.	6111.03, 6111.05	Federal	40CFR 122.21(a)	yes	Yes	no
3745-33-03	A	shall	Applications for Ohio NPDES permits shall be filed only on forms approved by Ohio EPA and shall contain such information as Ohio EPA deems necessary.	6111.03, 6111.05	Federal	40 CFR 122.21(a)	yes	Yes	no

3745-33-03	A	shall	As a minimum, these applications shall contain any NPDES application information required by regulations adopted by the administrator, including 40 C.F.R. 122 to 125, 129 to 133, 136, 400 to 471, 501 and 503.	6111.03, 6111.05	Federal	Rules cited in description, particularly 40 CFR 122.21	yes	Yes	no
3745-33-03	B	shall	Any person proposing to commence the discharge of pollutants shall submit an application, including all data required by the application form, at least one hundred eighty days prior to commencement of the discharge.	6111.03, 6111.05	Federal	40 CFR 122.21(c)	yes	Yes	no
3745-33-03	B	shall	If a permit renewal application is submitted at least one hundred eighty days prior to the expiration date of the existing permit, and the director does not issue a new permit before the expiration date, the conditions of the expired permit shall continue in force until the director acts on the permit application.	6111.03, 6111.05	General	40 CFR 122.6	yes	No	no
3745-33-03	C1	shall	The applicant shall attach to the application a list of treatment additives proposed to be discharged including, but not limited to, maintenance chemicals and chemicals used to aid in the treatment of the wastewater.	6111.03, 6111.05	General		yes	No	no
3745-33-03	C2	shall	If these treatment additives proposed have not been approved in a permit to install issued under Chapter 3745-42 of the Administrative Code, director's final findings and orders, or NPDES permit issuance, the applicant shall also submit an application to discharge the treatment additives in accordance with paragraph (G) of this rule.	6111.03, 6111.05	General		yes	No	no
3745-33-03	D	shall	An indication of why the application was considered incomplete shall accompany the application returned.	6111.03, 6111.05	General	40 CFR 122.21(e)	yes	No	yes
3745-33-03	D1	shall not	Except as specified in paragraph (D)(1)(b) of this rule, a permit application shall not be considered complete unless all required quantitative data are collected in accordance with sufficiently sensitive analytical methods approved under 40 C.F.R. Part 136 or required under 40 C.F.R. chapter I, subchapter N or O.	6111.03, 6111.05	Federal	40 CFR 122.21(e)	yes	No	no
3745-33-03	D1b	shall	When there is no analytical method that has been approved under 40 C.F.R. Part 136, required under 40 C.F.R. chapter I, subchapter N or O, and a specific analytical method is not otherwise required by the director, the applicant may use any suitable method but shall provide a description of the method.	6111.03, 6111.05	Federal	40 CFR 122.21(e)	yes	No	no
3745-33-03	E1	shall	A request for confidential treatment shall be submitted to Ohio EPA simultaneously with an application with documentation sufficient to support that the information is confidential.	6111.03, 6111.05	federal	40 CFR 122.7	yes	yes	no
3745-33-03	E1	shall	Failure to make such a timely request shall constitute a waiver of the right to prevent public disclosure	6111.03, 6111.05	federal	40 CFR 122.7	yes	yes	no
3745-33-03	E2	shall	A decision as to whether to treat the information as confidential shall be made by the director within forty-five days of receipt of the request and accompanying documentation.	6111.03, 6111.05	federal	40 CFR 122.7	yes	yes	yes
3745-33-03	E2	shall	Until such decision is made, the information or part thereof, shall be treated as confidential.	6111.03, 6111.05	federal	40 CFR 122.7	yes	yes	no
3745-33-03	E2	shall	The applicant requesting confidentiality shall be notified in writing of the director's decision.	6111.03, 6111.05	federal	40 CFR 122.7	yes	yes	yes
3745-33-03	E3e	shall not	Disclosure of information determined to be confidential in accordance with paragraph (E)(3) of this rule shall not, of itself, affect the eligibility of information for confidential treatment under the other provisions of this rule.	6111.03, 6111.05	federal	40 CFR 122.7	yes	yes	no
3745-33-03	F	shall	An application submitted to the director pursuant to this chapter shall be signed as follows:	6111.03, 6111.05	Federal	40 CFR 122.22	yes	No	no
3745-33-03	G1	shall	Permittees, except for POTWs, shall obtain prior approval for the use of new treatment additives and for the discharge of treatment additives.	6111.03, 6111.05	General		yes	No	no
3745-33-03	G2	shall	Requests for approvals under this paragraph shall be filed only on forms approved by Ohio EPA and contain such information as Ohio EPA deems necessary.	6111.03, 6111.05	State/Federal	40 CFR 122.21(a)	yes	No	no
3745-33-03	A	require	As a minimum, these applications shall contain any NPDES application information required by regulations adopted by the administrator, including 40 C.F.R. 122 to 125, 129 to 133, 136, 400 to 471, 501 and 503.	6111.03, 6111.05	State/Federal	Laws and rules cited, particularly 40 CFR 122.21(a).	yes	Yes	no
3745-33-03	B	require	Any person proposing to commence the discharge of pollutants shall submit an application, including all data required by the application form, at least one hundred eighty days prior to commencement of the discharge	6111.03, 6111.05	Federal	40 CFR 122.21(c)	yes	No	no
3745-33-03	D1	require	Except as specified in paragraph (D)(1)(b) of this rule, a permit application shall not be considered complete unless all required quantitative data are collected in accordance with sufficiently sensitive analytical methods approved under 40 C.F.R. Part 136 or required under 40 C.F.R. chapter I, subchapter N or O.	6111.03, 6111.05	Federal	40 CFR 122.21(e)	yes	No	no
3745-33-03	D1	require	Except as specified in paragraph (D)(1)(b) of this rule, a permit application shall not be considered complete unless all required quantitative data are collected in accordance with sufficiently sensitive analytical methods approved under 40 C.F.R. Part 136 or required under 40 C.F.R. chapter I, subchapter N or O.	6111.03, 6111.05	State/Federal	40 CFR 122.21(e) and ORC 6111.03(J)(1)	yes	Yes	no
3745-33-03	D1a	require	For the purposes of this requirement, a method approved under 40 C.F.R. Part 136 or required under 40 C.F.R. chapter I, subchapter N or O is "sufficiently sensitive" when any of the following conditions are met:	6111.03, 6111.05	State/Federal	40 CFR 122.21(e) and ORC 6111.03(J)(1)	yes	Yes	no
3745-33-03	D1aiii	require	The method has the lowest QL of the analytical methods approved under 40 C.F.R. Part 136 or required under 40 C.F.R. chapter I, subchapter N or O for the measured pollutant or pollutant parameter.	6111.03, 6111.05	State/Federal	40 CFR 122.21(e) and ORC 6111.03(J)(1)	yes	Yes	no

3745-33-03	D1b	require	When there is no analytical method that has been approved under 40 C.F.R. Part 136, required under 40 C.F.R. chapter I, subchapter N or O, and a specific analytical method is not otherwise required by the director, the applicant may use any suitable method but shall provide a description of the method.	6111.03, 6111.05	State/Federal	40 CFR 122.21(e) and ORC 6111.03(J)(1)	yes	Yes	no
3745-33-03	D1b	require	When there is no analytical method that has been approved under 40 C.F.R. Part 136, required under 40 C.F.R. chapter I, subchapter N or O, and a specific analytical method is not otherwise required by the director, the applicant may use any suitable method but shall provide a description of the method.	6111.03, 6111.05	State/Federal	40 CFR 122.21(e) and ORC 6111.03(J)(1)	yes	Yes	no
3745-33-03	E4	require	Information required by NPDES application forms provided by the director under this rule may not be claimed confidential.	6111.03, 6111.05	Federal	40 CFR 122.7	yes	No	no
3745-33-03	E4	require	This includes information on the forms themselves and any attachments used to supply information required by the forms.	6111.03, 6111.05	Federal	40 CFR 122.7	yes	No	no
3745-33-03	E4	may not	Information required by NPDES application forms provided by the director under this rule may not be claimed confidential.	6111.03, 6111.05	Federal	40 CFR 122.7	yes	No	no
3745-33-04	A1	shall	The director shall issue an Ohio NPDES permit for the discharge if, on the basis of all information available to Ohio EPA, the director determines all of the following:	6111.03	General		yes	No	yes
3745-33-04	A2	shall	The director shall deny an application for a permit or renewal thereof if any of the following occur:	6111.03	Federal	40 CFR 122.4	yes	Yes	yes
3745-33-04	A3	shall not	Possession of an Ohio NPDES permit shall not relieve any person of the responsibility to comply with the authorized discharge levels specified in the permit or other provisions of applicable law.	6111.03	General/Federal	40 CFR 122.41(a)	yes	No	no
3745-33-04	B	shall	. The director shall issue or deny an application for a permit for a new discharge, for the installation or modification of a disposal system, or for renewal of a permit, within one hundred eighty days of the date on which the director receives a complete application with all plans, specifications, construction schedules, and other pertinent information required by the director.	6111.03	General		yes	no	yes
3745-33-04	C1	shall	The director shall notify the permittee that any permittee who wishes to continue to discharge after the expiration date of the permittee's Ohio NPDES permit shall submit a permit application including all data required by the application form at least one hundred eighty days prior to the expiration of the permit.	6111.03	General		yes	No	yes
3745-33-04	C1	shall	The director shall notify the permittee that any permittee who wishes to continue to discharge after the expiration date of the permittee's Ohio NPDES permit shall submit a permit application including all data required by the application form at least one hundred eighty days prior to the expiration of the permit.	6111.03	Federal	40 CFR 122.21(c)	yes	No	no
3745-33-04	C1	shall	Ohio NPDES permits shall be renewed in accordance with the provisions for issuance of permits under this chapter.	6111.03	General/Federal	40 CFR 122 and 40 CFR 124	yes	No	no
3745-33-04	C2	shall	In renewing a permit, the director shall consider the compliance history of the permit holder and may deny the renewal if the director determines that the permit holder has not complied with the terms and conditions of the existing permit.	6111.03	General/Federal	40 CFR 122.64	yes	No	yes
3745-33-04	C2	shall	If a permit renewal application is submitted at least one hundred eighty days prior to the expiration date of the existing permit, and the director proposes to deny the renewal of the permit in accordance with rule 3745-49-05 of the Administrative Code, the expired permit shall continue to be in effect in accordance with section 119.06 of the Revised Code until such time as the director issues a final action.	6111.03	State		yes	yes	no
3745-33-04	C4	shall not	Any more stringent limitation on the thermal component of a discharge shall not be imposed as a condition of a permit or renewal thereof for a discharge during a ten year period in accordance with division (J)(3) of section 6111.03 of the Revised Code.	6111.03	Federal	CWA 316(c)	yes	Yes	no
3745-33-04	D	shall	All requests shall be in writing and shall contain facts or reasons supporting the request.	6111.03	General	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	D	shall	All requests shall be in writing and shall contain facts or reasons supporting the request.	6111.03	General	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	D1	shall	Applications for modifications of permits shall be made only on forms approved by Ohio EPA and shall contain such information that Ohio EPA deems necessary.	6111.03	General	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	D1	shall	Applications for modifications of permits shall be made only on forms approved by Ohio EPA and shall contain such information that Ohio EPA deems necessary.	6111.03	General	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	D1	shall	Such an application or request shall contain all of the following:	6111.03	General/Federal	40 CFR 122.62	yes	No	no
3745-33-04	D2	shall not	A modification at the request of a permittee shall not be approved unless the director determines all of the following:	6111.03	General/Federal	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	D3g	shall	No change shall affect a discharger's obligation to have all pollution control equipment installed and in operation prior to discharge.	6111.03	Federal	40 CFR 122.63	yes	No	no
3745-33-04	D3li	shall	The discharge shall be controlled as necessary to meet applicable water quality standards.	6111.03	General/Federal	spirit of 40 CFR 122.63	yes	No	no
3745-33-04	D4	shall	Until the date that U.S. EPA approves the NPDES program submitted by the director of agriculture under section 903.08 of the Revised Code, permits shall be modified in accordance with 40 C.F.R. 122.42(e) when a concentrated animal feeding operation proposes to change a nutrient management plan.	6111.03	Federal	122.42(e)	yes	yes	no
3745-33-04	E1	shall	The permittee shall notify the succeeding owner or successor of the existence of the Ohio NPDES permit by letter, a copy of which shall be forwarded to Ohio EPA.	6111.03	General	40 CFR 122.61	yes	No	no
3745-33-04	E1	shall	The permittee shall notify the succeeding owner or successor of the existence of the Ohio NPDES permit by letter, a copy of which shall be forwarded to Ohio EPA.	6111.03	General	40 CFR 122.61	yes	No	no

3745-33-04	E1	shall	The copy of the letter shall be received by Ohio EPA at least sixty days prior to any proposed transfer of an Ohio NPDES permit and shall serve as the permittee's notice to the director of the proposed transfer.	6111.03	General/Federal	40 CFR 122.61	yes	No	no
3745-33-04	E1	shall	The copy of the letter shall be received by Ohio EPA at least sixty days prior to any proposed transfer of an Ohio NPDES permit and shall serve as the permittee's notice to the director of the proposed transfer.	6111.03	General/Federal	40 CFR 122.61	yes	No	no
3745-33-04	E2	shall	A written agreement containing a specific date for transfer of permit responsibility and coverage between the permittee and successor, including acknowledgment that the existing permittee is liable for violations up to the transfer date and the successor is liable for violations from that date forth, shall be received by Ohio EPA at least sixty days prior to the proposed transfer.	6111.03	Federal	40 CFR 122.61	yes	No	no
3745-33-04	E3	shall	The director shall notify both the original permittee transferor and the transferee in writing of the director's decision.	6111.03	General/Federal	40 CFR 122.61	yes	No	yes
3745-33-04	F	shall	Each Ohio NPDES permit shall expire as of the date indicated on the permit.	6111.03	General/Federal	40 CFR 122.46 and 40 CFR 122.64	yes	No	no
3745-33-04	F	shall	No permit shall be issued that will run for a period of more than five years, however the permit can be administratively continued under paragraph (C) of this rule.	6111.03	General/Federal	40 CFR 122.46 and 40 CFR 122.6	yes	Yes	yes
3745-33-04	F	shall	All requests shall be in writing and shall contain facts or reasons supporting the request. If the director decides the request is not justified, the director may send the requestor a brief written response giving a reason for the decision.	6111.03	General/Federal	40 CFR 122.64	yes	No	no
3745-33-04	F	shall	All requests shall be in writing and shall contain facts or reasons supporting the request. If the director decides the request is not justified, the director may send the requestor a brief written response giving a reason for the decision.	6111.03	General/Federal	40 CFR 122.64	yes	No	no
3745-33-04	G1	shall	All requests shall be in writing and shall contain facts or reasons supporting the request.	6111.03	General/Federal	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	G1	shall	All requests shall be in writing and shall contain facts or reasons supporting the request.	6111.03	General/Federal	40 CFR 122.62 and 40 CFR 124.5	yes	No	no
3745-33-04	G2	shall	The permittee shall be notified of the proposed revocation and reasons for such proposed revocation.	6111.03	General/Federal	40 CFR 122.62 and 40 CFR 124.5	yes	No	yes
3745-33-04	G2	shall	The director shall afford a prompt hearing to any permittee whose permit the director proposes to revoke and who requests such a hearing, in accordance with the provisions of the rules of procedure, Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03	General		yes	no	yes
3745-33-04	A1c	require	Adequate provisions for monitoring to obtain required pollutant discharge information have been made.	6111.03	General/Federal	40 CFR 122.21	yes	No	yes
3745-33-04	A1d	require	If required by Ohio EPA, performance tests, conducted at the applicant's expense after the application was filed and in accordance with methods prescribed by Ohio EPA, demonstrate that the discharge is in compliance with the authorized discharge levels.	6111.03	General/Federal	40 CFR 122.21	yes	No	yes
3745-33-04	B	require	The director shall issue or deny an application for a permit for a new discharge, for the installation or modification of a disposal system, or for renewal of a permit, within one hundred eighty days of the date on which the director receives a complete application with all plans, specifications, construction schedules, and other pertinent information required by the director.	6111.03	General/Federal	40 CFR 122.21	yes	No	yes
3745-33-04	C1	require	The director shall notify the permittee that any permittee who wishes to continue to discharge after the expiration date of the permittee's Ohio NPDES permit shall submit a permit application including all data required by the application form at least one hundred eighty days prior to the expiration of the permit.	6111.03	Federal	40 CFR 122.21	yes	No	no
3745-33-04	D3b	require	Require more frequent monitoring by the permittee	6111.03	Federal	40 CFR 122.63	yes	No	no
3745-33-04	D3c	require	Revise the months for which monitoring is required, if the monitoring frequency and number of samples per year remain the same.	6111.03	General	40 CFR 122.63	yes	No	no
3745-33-05	A1	shall	Except as provided by paragraph (G) of this rule, for each point source from which pollutants are discharged, the director shall determine and specify in the permit limits on the levels of pollutants that may be discharged to ensure compliance with all of the following:	6111.03	Federal	40 CFR 122.44, 40 CFR 122.45, 40 CFR 125.3	yes	yes	yes
3745-33-05	C1	shall	These requirements shall apply unless the director determines that expressing limits in these terms is impracticable.	6111.03	General/Federal	40 CFR 122.45(d) and (e)	yes	No	no
3745-33-05	C1a	shall	For discharges from a publicly owned treatment works or other treatment works that treats exclusively domestic sewage, limits for the parameters listed in this paragraph shall be expressed as average weekly and average monthly limits, unless limits for other periods are needed to meet water quality standards or other regulatory requirements.	6111.03	General/Federal	40 CFR 122.45(d)	yes	No	no
3745-33-05	C1b	shall	For all other discharges, limits shall be expressed as daily maximum and monthly average limits, unless limits for other periods are needed to meet water quality standards or other regulatory requirements.	6111.03	General/Federal	40 CFR 122.45(d)	yes	No	no
3745-33-05	C2	shall	Discharges that are not continuous, as continuous is defined in 40 C.F.R. 122.2, shall be particularly described and limited, considering the following factors, as appropriate:	6111.03	Federal	40 CFR 122.45(e)	yes	No	no
3745-33-05	C2a	shall not	Frequency (for example, a batch discharge shall not occur more than once every three weeks).	6111.03	Federal	40 CFR 122.45(e)	yes	No	no
3745-33-05	C2d	shall not	Prohibition or limitation of specified pollutants by mass, concentrations, or other appropriate measure (for example, shall not contain at any time more than 0.1 mg/l zinc or more than two hundred fifty grams (0.25 kilograms) of zinc in any discharge).	6111.03	Federal	40 CFR 122.45(e)	yes	yes	no

3745-33-05	C3	shall	Authorized levels of pollutants that may be discharged shall be stated to the extent possible given the nature of the pollutant in terms of the volume, weight in pounds or kilograms per day (except for those pollutants not expressible by weight), duration, frequency and, where appropriate, concentration (except for those pollutants not expressible by concentration) of each pollutant discharge.	6111.03	Federal/State	40 CFR 122.45(f) and ORC 6111.03(J)(3)	yes	Yes	no
3745-33-05	C3	shall	The director shall specify average and maximum daily quantitative limitations, where appropriate.	6111.03	Federal	40 CFR 122.45(d)	yes	No	yes
3745-33-05	C3	shall	Whenever a water quality-based effluent limitation (WQBEL) is developed under Chapter 3745-2 of the Administrative Code, the WQBEL shall be expressed as both a concentration value and a corresponding mass loading limit, except as provided in paragraph (C)(3)(d) of this rule.	6111.03	Federal	40 CFR 132 Appendix F	yes	Yes	no
3745-33-05	C3a	shall	The mass loading limits shall be calculated using effluent flow rates that are consistent with those used in establishing the WQBELs that are expressed as concentrations, except as allowed under paragraphs (C)(3)(c) and (C)(3)(d) of this rule.	6111.03	Federal	40 CFR 132 Appendix F	yes	Yes	yes
3745-33-05	C3b	shall	For limits not based on numeric criteria, mass and concentration limits shall be expressed in a manner consistent with the WLA or TMDL established under Chapter 3745-2 of the Administrative Code.	6111.03	General		yes	No	yes
3745-33-05	C3b	shall	If the limits were not established under Chapter 3745-2 of the Administrative Code, concentration and loading limits shall be set to meet other applicable water quality standards or treatment technology standards.	6111.03	State/Federal	40 CFR 122.44, 40 CFR 122.45	yes	No	yes
3745-33-05	C5	shall	When a site-specific dissolved metals translator is used in the calculation of effluent limitations, the NPDES permit shall require the permittee to conduct ambient sampling to confirm the continued validity of the site-specific translator.	6111.03	General		yes	No	no
3745-33-05	C5a	shall	The ambient sampling shall be conducted once during the term of the Ohio NPDES permit using procedures specified in rule 3745-2-04 of the Administrative Code.	6111.03	General		yes	No	no
3745-33-05	F1f	shall not	In this case the limitations in the renewed, reissued, or modified permit may reflect the level of pollution control actually achieved, but shall not be less stringent than required by the effluent guidelines in effect at the time of permit renewal, reissuance or modification.	6111.03	Federal	40 CFR 122.44(l)	yes	yes	no
3745-33-05	F2	shall	Any increase in authorized pollutant loadings shall be subject to any applicable antidegradation requirements contained in rule 3745-1-05 of the Administrative Code.	6111.03	General/Federal	40 CFR 131.12	yes	No	no
3745-33-05	F3	shall not	A permit shall not be renewed, reissued or modified to contain limitations that are less stringent than the applicable effluent guidelines at the time the permit is renewed, reissued or modified, or to contain effluent limits that would result in a violation of applicable water quality standards.	6111.03	Federal	40 CFR 122.44(l)	yes	Yes	no
3745-33-05	G1	shall	If construction of a point source commenced after March 23, 1997 for which an initial Ohio NPDES permit containing a water quality-based effluent limitation is issued on or after March 23, 1997, the permittee shall comply with such a discharge limitation upon commencement of the discharge, except as allowed in this paragraph:	6111.03	Federal	40 CFR 122.29, 40 CFR 132	yes	yes	no
3745-33-05	G1	shall	A point source that commenced discharge after March 23, 1997, or a recommencing discharger, shall install and have in operating condition, and shall "start-up" all pollution control equipment required to meet the conditions of its permits before beginning to discharge.	6111.03	Federal	40 CFR 122.29, 40 CFR 132	yes	yes	no
3745-33-05	G1	shall	A point source that commenced discharge after March 23, 1997, or a recommencing discharger, shall install and have in operating condition, and shall "start-up" all pollution control equipment required to meet the conditions of its permits before beginning to discharge.	6111.03	Federal	40 CFR 122.29, 40 CFR 132	yes	yes	no
3745-33-05	G2	shall	Any schedules of compliance issued under this paragraph shall require compliance as soon as possible, but not later than the applicable statutory deadline under the act.	6111.03	Federal	40 CFR 122.47	yes	no	no
3745-33-05	G2	shall	This schedule shall become a condition of the NPDES permit, if the director determines that any of the following conditions apply:	6111.03	Federal	40 CFR 122.47	yes	no	no
3745-33-05	G3	shall	A satisfactory schedule of compliance shall include all of the following elements:	6111.03	Federal	40 CFR 122.47, 40 CFR 132	yes	yes	no
3745-33-05	G3a	shall	An enforceable schedule of steps and dates for their achievement, no two of which shall be separated by more than twelve months, to be taken by the applicant that will bring the discharge into compliance with authorized discharge levels at the earliest possible date but no later than those dates necessary to achieve the objectives set forth in the act.	6111.03	Federal	40 CFR 122.47, 40 CFR 132	yes	yes	no
3745-33-05	G3b	shall	Such additional steps as the director shall specify, including interim measures, to eliminate any danger or serious threat of danger to human health and to minimize any deleterious effect on the environment.	6111.03	Federal	40 CFR 122.47, 40 CFR 132	yes	yes	no
3745-33-05	G3c	shall	When the compliance schedule goes beyond the term of the permit, an interim effluent limit or other appropriate requirements and schedules effective upon the expiration date; these shall also be addressed in the permit fact sheet	6111.03	Federal	40 CFR 122.47, 40 CFR 132	yes	yes	yes
3745-33-05	G3c	shall	The administrative record for the permit shall reflect the final limit, or requirements for developing limits and other appropriate requirements and schedules, and the compliance date.	6111.03	Federal	40 CFR 122.47, 40 CFR 132	yes	yes	no
3745-33-05	G3dii	shall	The reopener clause shall authorize permit modifications if specified studies have been completed by the permittee or provided by a third-party during the time allowed to conduct the specified studies that demonstrate, to the director's satisfaction, that a revised limit is appropriate.	6111.03	General	40 CFR 122.47, 40 CFR 132	yes	yes	no
3745-33-05	G3dii	shall not	If incorporated prior to the compliance date of the original tier II limitation, any such revised limit shall not be considered less stringent for purposes of the antibacksliding provisions of paragraph (F) of this rule.	6111.03	General	40 CFR 122.47, 40 CFR 132	yes	yes	no

3745-33-05	G5	shall	No later than fourteen days following each interim date and the final date of compliance, the permittee shall provide the director with written notice of the permittee's compliance or noncompliance with interim or final requirements.	6111.03	Federal	40 CFR 122.47(a)(4)	yes	no	no
3745-33-05	C3a	must	For limits based on numeric water quality criteria, both mass and concentration limits must be based on the same permit averaging periods, except as allowed under paragraph (C)(3)(d) of this rule.	6111.03	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-05	C4	must	All permit effluent limitations, standards, or prohibitions for a metal must be expressed in terms of "total recoverable" metal as defined in 40 C.F.R. 136, Appendix C unless any of the following apply:	6111.03	Federal	40 CFR 122.45(c)	yes	no	no
3745-33-05	G1	must	Within the shortest feasible time (not to exceed ninety days), the owner or operator must meet all permit conditions	6111.03	Federal	40 CFR 122.29(d)(4)	yes	no	no
3745-33-05	G3d	must	When the permit is renewed or modified to contain a new or more restrictive WQBEL, the WQBEL must be based on a whole effluent toxicity level contained in rule 3745-2-09 of the Administrative Code or on a criterion or tier II value adopted in, or derived pursuant to, Chapter 3745-1 of the Administrative Code to qualify for a compliance schedule under this rule except as provided for in this paragraph.	6111.03	Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	no
3745-33-05	G3di	must	In such cases, the permit must require compliance with the tier II limitation within a reasonable period of time, no later than five years after permit renewal or modification, and contain a reopener clause.	6111.03	Federal	40 CFR 132 Appendix A, Appendix F	yes	yes	no
3745-33-05	A1e	require	Any more stringent limitations required to comply with any other state or federal law or regulation.	6111.03	General/State/Federal		yes	no	yes
3745-33-05	C5	require	When a site-specific dissolved metals translator is used in the calculation of effluent limitations, the NPDES permit shall require the permittee to conduct ambient sampling to confirm the continued validity of the site-specific translator.	6111.03	General/Federal	40 CFR 131.11	yes	no	no
3745-33-05	C5b	require	If the director determines that adequate site-specific dissolved metals translator data exists, the ambient sampling may not be required.	6111.03	General/Federal	40 CFR 131.11	yes	no	no
3745-33-05	F1f	require	The permittee has installed the treatment facilities required to meet the effluent limitations in the previous permit and has properly operated and maintained the facilities but has nevertheless been unable to achieve the previous effluent limitations.	6111.03	Federal	40 CFR 122.44(l) and 40 CFR 132 Appendix F	yes	yes	no
3745-33-05	F1f	require	In this case the limitations in the renewed, reissued, or modified permit may reflect the level of pollution control actually achieved, but shall not be less stringent than required by the effluent guidelines in effect at the time of permit renewal, reissuance or modification.	6111.03	Federal	40 CFR 122.44(l) and 40 CFR 132 Appendix F	yes	yes	no
3745-33-05	G1	require	A point source that commenced discharge after March 23, 1997, or a recommending discharger, shall install and have in operating condition, and shall "start-up" all pollution control equipment required to meet the conditions of its permits before beginning to discharge.	6111.03	Federal	40 CFR 122.29, 40 CFR 132 Appendix F	yes	yes	no
3745-33-05	G2	require	Any schedules of compliance issued under this paragraph shall require compliance as soon as possible, but not later than the applicable statutory deadline under the act.	6111.03	Federal	40 CFR 122.47	yes	no	no
3745-33-05	G3diii	require	In such cases, the permit must require compliance with the tier II limitation within a reasonable period of time, no later than five years after permit renewal or modification, and contain a reopener clause.	6111.03	Federal	40 CFR 132	yes	yes	no
3745-33-05	C5b	may not	If the director determines that adequate site-specific dissolved metals translator data exists, the ambient sampling may not be required.	6111.03	General/Federal	40 CFR 131.11	yes	no	no
3745-33-05	F1	may not	Ohio NPDES permits may not be renewed, reissued or modified to contain effluent limitations that are less stringent than the comparable final effluent limitations in the previous permit except when any of the following apply:	6111.03	Federal	40 CFR 122.44(l) and 40 CFR 132 Appendix F	yes	yes	no
3745-33-06	A	shall	The director shall include in Ohio NPDES permits the treatment and disposal standards and effluent limitations for discharges described in paragraph (C) of this rule.	6111.03, 6111.042, 6111.46	General/International	IJC agreements	yes	yes	yes
3745-33-06	C1	must	Any publicly owned treatment works (POTW) in the lake Erie basin with a design flow of 1.0 million gallons per day or more, or designated as a major discharger by the director, must meet a total phosphorus discharge limit of 1.0 milligram per liter as a thirty-day average.	6111.03, 6111.042, 6111.47	General/International	IJC agreements	yes	yes	no
3745-33-06	C2	must	Any POTW or treatment works treating domestic sewage with a design flow of 0.2 million gallons per day or more that discharges to a publicly owned lake or reservoir must meet a total phosphorus discharge limit of 1.0 milligram per liter (thirty-day average).	6111.03, 6111.042, 6111.48	General		yes	no	no
3745-33-06	A	require	Effluent limitations for these discharges will be based on the requirements of this rule, or any more stringent water-quality-based limitations required by rule 3745-33-07 of the Administrative Code.	6111.03, 6111.042, 6111.49	General/International/Federal	IJC agreements, 40 CFR 122.44, 40 CFR 122.45	yes	yes	no
3745-33-07	A	shall	Final effluent limitations and monitoring requirements shall be established in an NPDES permit in accordance with this rule.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44, 40 CFR 122.45	yes	no	no
3745-33-07	A1	shall	Final effluent limitations shall be required for pollutants that meet any of the following conditions:	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 131.12	yes	no	no
3745-33-07	A2	shall	Final effluent monitoring shall be required for pollutants assigned to group four of the pollutant assessment.	6111.03, 6111.031, 6111.13	General	40 CFR 122.48	yes	no	no
3745-33-07	A2	shall	In addition, the permit shall include a tracking mechanism for all group four parameters with a projected effluent quality (PEQ) equivalent to or exceeding seventy-five per cent of the PEL.	6111.03, 6111.031, 6111.13	General	40 CFR 122.48, 40 CFR 122.44(k)	yes	no	no
3745-33-07	A2	shall	The tracking language shall contain all of the following:	6111.03, 6111.031, 6111.13	General	40 CFR 122.48, 40 CFR 122.44(k)	yes	no	no

3745-33-07	A2b	shall	Written notification shall detail the reasons for the level being above the PEL and for expectation of continued levels above the PEL.	6111.03, 6111.031, 6111.13	General	40 CFR 122.48, 40 CFR 122.44(k)	yes	no	no
3745-33-07	A2d	shall	This request shall contain a justification for the additional time necessary to reduce discharge levels.	6111.03, 6111.031, 6111.13	General	40 CFR 122.48, 40 CFR 122.44(k)	yes	no	no
3745-33-07	A4	shall	Final effluent monitoring for dioxin shall be required for a minimum of twelve months when detectable levels of pentachlorophenol are present in the effluent.	6111.03, 6111.031, 6111.13	General	40 CFR 122.48	yes	no	no
3745-33-07	A5	shall	If the director determines that a PEQ is unrepresentative due to a small data set, the pollutant shall be subject to the group four conditions of this rule, unless paragraph (A)(6) of this rule applies.	6111.03, 6111.031, 6111.13	General	40 CFR 122.44(d)	yes	no	no
3745-33-07	A8a	shall	When a point source discharge is subject to a WQBEL for pollutants considered additive, the permit for that discharge shall contain a limitation on the additivity of the pollutants unless either of the following apply:	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A8a ⁱⁱ	shall	If the sum is equal to or greater than 1.0, the permit shall contain a limitation regulating the additivity of these pollutants.	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A9	shall not	This paragraph shall not apply to temperature and pH.	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A9a	shall not	The director shall not impose WQBELs for a discharge consisting solely of once-through noncontact cooling water drawn from the same body of water that the effluent is discharged to as determined under paragraph (C) of rule 3745-2-06 of the Administrative Code, except in the following situations	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-33-07	A9a ⁱ	shall	The director shall require a WQBEL for a pollutant or a whole effluent toxicity (WET) limit when information is available indicating that such a limit is necessary to protect existing or designated uses, unless the discharger is able to demonstrate that the presence of the pollutant or WET is due solely to its presence in the intake water as determined under paragraph (C) of rule 3745-2-06 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-33-07	A9a ⁱⁱ	shall	The director shall require a WQBEL for a pollutant when the pollutant concentration in the discharge exhibits reasonable potential, is higher than ambient concentrations in the receiving water due to recirculation of the cooling water in the receiving water body, and available information indicates that a limit is necessary to protect existing or designated uses.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-33-07	A9a ⁱⁱⁱ	shall	The director shall establish a WQBEL or other requirement in the permit for the noncontact cooling water wastestream if biological index measurements or WET measurements indicate that the noncontact cooling water discharge contributes to an impairment of an existing or designated use of the receiving waters.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-33-07	A9a ^{iv}	shall not	If a pollutant is present at elevated levels in the noncontact cooling water wastestream due to pollutants entering the cooling system, paragraph (A)(9) of this rule shall not apply to the discharge of pollutants present at elevated levels.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A9a ^v	shall	If the permittee uses or proposes to use additives in the noncontact cooling water wastestream, the director shall evaluate the additives to determine whether there is a reasonable potential for the additive to cause or contribute to an excursion of the water quality standards contained in Chapter 3745-1 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	yes
3745-33-07	A9a ^v	shall	The director shall establish permit conditions or other requirements for the additives or their ingredients that ensure that Ohio water quality standards are attained.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	yes
3745-33-07	A9a ^{vii}	shall	If the noncontact cooling water is combined with other wastestreams prior to final discharge, the provisions of paragraph (A)(9) of this rule are restricted to the noncontact cooling water wastestream, and WQBELs shall be established on a reasonable potential analysis for the sum of the other wastestreams conducted according to this rule and rule 3745-2-06 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	no	no
3745-33-07	A9a ^{vii}	shall	If other individual wastestreams cannot be practically monitored, the director shall require WQBELs at the final discharge point.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	no	yes
3745-33-07	A9a ^{viii}	shall	The director shall require monitoring of the intake and any other locations necessary to verify and confirm the conclusions about reasonable potential under paragraph (A)(9)(a) of this rule.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	no	no
3745-33-07	A10	shall	Ohio NPDES permits shall require that discharges of treatment additives meet Ohio water quality standards.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	A10	shall	To determine whether treatment additive discharges meet water quality standards, the director shall use the procedures from rule 3745-1-40 and Chapter 3745-2 of the Administrative Code, or alternatively, using the procedures from paragraph (D) of rule 3745-1-04 of the Administrative Code if toxicity data are available for the limiting endpoint, acute or chronic, for at least one freshwater fish species and one freshwater invertebrate species.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	yes
3745-33-07	A11	shall	A discharge shall be deemed to be in compliance with an effluent limitation based upon the 0.012 ug/l thirty-day average water quality criterion for total recoverable mercury specified in Chapter 3745-1 of the Administrative Code if either of the following occur	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 131.11, 40 CFR 122.44(d)	yes	no	no
3745-33-07	A11b	shall	Any discharger seeking to make a demonstration pursuant to this paragraph shall include a notification of intent to perform such a study in the monthly operating report that reports any exceedance of a mercury effluent limit based on the 0.012 ug/l thirty-day average water quality criterion for total recoverable mercury.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 131.11, 40 CFR 122.44(d)	yes	no	no
3745-33-07	A11b	shall	Such demonstration shall be based upon results of a fish tissue study, conducted in accordance with a methodology approved by the director.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 131.11, 40 CFR 122.44(d)	yes	no	no

3745-33-07	A11b	shall	The results of the fish tissue study shall be submitted to the director for review and approval within one hundred and twenty days of the discharge, or such additional period of time as specified by the director.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 131.11, 40 CFR 122.44(d)	yes	no	no
3745-33-07	A11b	shall	If the geometric mean of all representative samples of any species or weighted average of the geometric means of various locally consumed species exceeds 0.3 mg/kg methylmercury, the director shall disapprove the demonstration and the discharger shall implement a strategy to reduce sources of mercury.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 131.11, 40 CFR 122.44(d)	yes	no	yes
3745-33-07	A11b	shall	If the geometric mean of all representative samples of any species or weighted average of the geometric means of various locally consumed species exceeds 0.3 mg/kg methylmercury, the director shall disapprove the demonstration and the discharger shall implement a strategy to reduce sources of mercury.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 131.11, 40 CFR 122.44(d)	yes	no	no
3745-33-07	B1	shall	The director shall evaluate whole effluent toxicity for a discharge using a weight-of-evidence evaluation of available data on the factors listed in paragraphs (B)(1)(a) to (B)(1)(d) of this rule and the evaluation matrix in table 1 of this rule to determine whether the discharge has the reasonable potential to cause or contribute to violations of water quality standards contained in Chapter 3745-1 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	yes
3745-33-07	B1	shall	The director shall classify the toxicity hazard of the discharge in one of the four categories listed in table 1 of this rule.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	yes
3745-33-07	B2	shall	When the director determines that the discharge has the reasonable potential to cause or contribute to an exceedance of the water quality standards contained in paragraph (D) of rule 3745-1-04 of the Administrative Code, the discharger shall be classified in hazard category 1 of table 1 of this rule, and the permit shall contain a discharge limitation for toxicity as determined using the procedures in rule 3745-2-09 of the Administrative Code, and any applicable procedures in paragraphs (B)(5) to (B)(10) of this rule.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	B2	shall	When the director determines that the discharge has the reasonable potential to cause or contribute to an exceedance of the water quality standards contained in paragraph (D) of rule 3745-1-04 of the Administrative Code, the discharger shall be classified in hazard category 1 of table 1 of this rule, and the permit shall contain a discharge limitation for toxicity as determined using the procedures in rule 3745-2-09 of the Administrative Code, and any applicable procedures in paragraphs (B)(5) to (B)(10) of this rule.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	B3	shall	For dischargers classified in hazard category 2, the director shall require monitoring with a permit limit for WET that is triggered by events specified in the permit.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	yes
3745-33-07	B4	shall	When the evaluation from paragraph (B)(1) of this rule using factors in paragraphs (B)(1)(a) to (B)(1)(d) of this rule indicates the discharger is classified in hazard category 3 of table 1 of this rule, the permit shall contain a monitoring requirement.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 122.48	yes	no	no
3745-33-07	B6	shall	Demonstrations conducted under paragraph (B)(5)(b) to (B)(5)(d) of this rule shall meet the requirements of rule 3745-1-06 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 131.13	yes	no	no
3745-33-07	B7	shall	The director shall review demonstrations under paragraphs (B)(5) and (B)(6) of this rule using the factors in paragraphs (B)(1)(a) to (B)(1)(d) of this rule to ensure that uses are not impaired by toxicity before approving modified limitations for whole effluent toxicity.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 131.13	yes	no	yes
3745-33-07	B10	shall	For the purposes of establishing whole effluent toxicity limitations, the values of 1.0 TUa and 1.0 TUC shall be the most restrictive limitations applied in permits.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	B11b	shall	Permits shall contain testing requirements at least four times per permit cycle for at least two species, one fish species and one macroinvertebrate species.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.21(j)(5)	yes	no	no
3745-33-07	B11c	shall	Permits shall contain chronic toxicity testing requirements if the ratio of the downstream or mixing zone dilution is less than twenty to one, according to the procedures in rule 3745-2-09 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.21(j)(5)	yes	no	no
3745-33-07	B11d	shall	Permits shall contain acute toxicity testing requirements if the ratio of the downstream or mixing zone dilution is twenty to one or greater, according to the procedures in rule 3745-2-09 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.21(j)(5)	yes	no	no
3745-33-07	C	shall	The following shall apply when a water quality based effluent limit for a pollutant is calculated to be less than the quantification level:	6111.03, 6111.031, 6111.13	State/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	C1	shall	The director shall designate as the limit in the NPDES permit the WQBEL exactly as calculated.	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-33-07	C2a	shall	The permittee shall use the most sensitive analytical procedure currently approved under 40 C.F.R. 136 for each individual pollutant.	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	C2c	shall	For the purpose of assessing compliance with an NPDES permit, any value reported below the quantification level shall be considered in compliance with the effluent limit.	6111.03, 6111.031, 6111.13	State/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	C2c	shall	For the purpose of calculating compliance with average limitations contained in an NPDES permit, compliance shall be determined by taking the arithmetic mean of reported values for a given reporting period and comparing that mean to the appropriate average permit limitation, using zero for any values detected at concentrations less than the quantification level.	6111.03, 6111.031, 6111.13	General/State/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	C2c	shall	Arithmetic mean values that are less than or equal to the permit limitation shall be considered in compliance with the effluent limit.	6111.03, 6111.031, 6111.13	General/State/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	C2d	shall	The quantification level is defined as the practical quantification level (PQL) except, for discharges to the lake Erie drainage basin, the quantification level shall be the minimum level for analytical procedures that have minimum levels specified in, or approved under, 40 C.F.R. 136.	6111.03, 6111.031, 6111.13	General/State/Federal	40 CFR 132 Appendix F	yes	yes	no

3745-33-07	C2f	shall	Discharge-specific quantification levels shall be calculated using the procedures provided in 40 C.F.R. 136, appendix B.	6111.03, 6111.031, 6111.13	Federal	40 CFR 136 Appendix B	yes	yes	no
3745-33-07	C3	shall	Ohio NPDES permits shall contain a reopener clause authorizing modification or revocation and reissuance of the permit if new information generated as a result of special conditions included in the permit indicates the presence of the pollutant in the discharge at levels above the WQBEL.	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-07	C4	shall	For discharges to the lake Erie drainage basin, the director shall include a condition in the permit requiring the permittee to develop and conduct a pollutant minimization program in accordance with rule 3745-33-09 of the Administrative Code for each pollutant with a WQBEL below the quantification level.	6111.03, 6111.031, 6111.13	Federal	40 CFR 132 Appendix F	yes	yes	yes
3745-33-07	B5d	must	Such studies must demonstrate that this zone is not rapidly lethal to floating or passing organisms.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 131.13	yes	no	no
3745-33-07	A1	require	Final effluent limitations shall be required for pollutants that meet any of the following conditions:	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44, 40 CFR 122.45	yes	no	no
3745-33-07	A2	require	Final effluent monitoring shall be required for pollutants assigned to group four of the pollutant assessment.	6111.03, 6111.031, 6111.13	General	40 CFR 122.44(d), 40 CFR 122.48	yes	no	no
3745-33-07	A4	require	Final effluent monitoring for dioxin shall be required for a minimum of twelve months when detectable levels of pentachlorophenol are present in the effluent.	6111.03, 6111.031, 6111.13	General	40 CFR 122.48	yes	no	no
3745-33-07	A9ai	require	The director shall require a WQBEL for a pollutant or a whole effluent toxicity (WET) limit when information is available indicating that such a limit is necessary to protect existing or designated uses, unless the discharger is able to demonstrate that the presence of the pollutant or WET is due solely to its presence in the intake water as determined under paragraph (C) of rule 3745-2-06 of the Administrative Code.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A9aii	require	The director shall require a WQBEL for a pollutant when the pollutant concentration in the discharge exhibits reasonable potential, is higher than ambient concentrations in the receiving water due to recirculation of the cooling water in the receiving water body, and available information indicates that a limit is necessary to protect existing or designated uses.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A9avii	require	If other individual wastestreams cannot be practically monitored, the director shall require WQBELs at the final discharge point.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A9aviii	require	The director shall require monitoring of the intake and any other locations necessary to verify and confirm the conclusions about reasonable potential under paragraph (A)(9)(a) of this rule.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 132 Appendix F	yes	yes	no
3745-33-07	A10	require	Ohio NPDES permits shall require that discharges of treatment additives meet Ohio water quality standards.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	B3	require	For dischargers classified in hazard category 2, the director shall require monitoring with a permit limit for WET that is triggered by events specified in the permit.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	B3	require	As an alternative to limits, the director may require the permittee to conduct a plant performance evaluation (PPE).	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 122.44(k)	yes	no	no
3745-33-07	B10	require	If the ratio of stream design flow to effluent flow is less than 3.3 to 1.0, the director may require special measures to investigate and remediate acute toxicity when an effluent consistently exhibits thirty per cent to fifty per cent mortality in one hundred per cent effluent.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d), 40 CFR 122.44(k)	yes	no	no
3745-33-07	B11aii	require	Any POTWs with approved pretreatment programs or POTWs required to develop a pretreatment program.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.21(j)(5)	yes	no	no
3745-33-07	C4, footnote.	require	Results of ambient toxicity test are not binding or required for classification as to category but, if available, will be interpreted under the weight of evidence principle giving due consideration as to sampling location and conditions.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-07	C4, footnote.	may not	May not be appropriate for situations where AIM exists.	6111.03, 6111.031, 6111.13	General/Federal	40 CFR 122.44(d)	yes	no	no
3745-33-08	A	shall	Each Ohio NPDES permit shall contain the following requirements:	6111.03	General/Federal	40 CFR 122.41, 40 CFR 122.42	yes	no	no
3745-33-08	A1	shall	That all discharges authorized under the NPDES permit shall be consistent with the terms and conditions of the permit.	6111.03	General/Federal	40 CFR 122.41(a)	yes	yes	no
3745-33-08	A1	shall	The discharge of any pollutants more frequently than or at a level in excess of that identified and authorized by the permit shall constitute a violation of the terms and conditions of the permit.	6111.03	General/Federal	40 CFR 122.41(a)	yes	yes	no
3745-33-08	A3	shall	That the permittee shall submit to Ohio EPA monthly reports containing such information as shall be specified by the director.	6111.03	Federal	40 CFR 122.48	yes	no	no
3745-33-08	A3	shall	That the permittee shall submit to Ohio EPA monthly reports containing such information as shall be specified by the director.	6111.03	Federal	40 CFR 122.28, 40 CFR 122.41(l)	yes	no	no
3745-33-08	A4	shall	That the permittee shall submit an annual report containing such information as shall be specified by the director.	6111.03	Federal	40 CFR 122.48	yes	no	no
3745-33-08	A4	shall	That the permittee shall submit an annual report containing such information as shall be specified by the director.	6111.03	Federal	40 CFR 122.48	yes	no	yes
3745-33-08	A5	shall	That the permittee shall report in such manner as shall be specified by the director, any discharge of pollutants in violation of permit terms and conditions.	6111.03	Federal	40 CFR 122.41(l)	yes	no	no

3745-33-08	A5	shall	That the permittee shall report in such manner as shall be specified by the director, any discharge of pollutants in violation of permit terms and conditions.	6111.03	Federal	40 CFR 122.41(l)	yes	no	no
3745-33-08	A6	shall	Reports of monitoring results obtained by the permittee shall be submitted annually (or on such a more frequent schedule as is required in the permit) to Ohio EPA.	6111.03	Federal	40 CFR 122.48, 40 CFR 122.41(l)	yes	no	no
3745-33-08	A6	shall	Monitoring and recording of monitoring results shall be conducted in accordance with regulations adopted or subsequently amended by the administrator, including paragraphs (e) and (j) of 40 C.F.R. 122.41 and 40 C.F.R. 122.48.	6111.03	Federal	40 CFR 122.41(e), (j) and (l)	yes	no	no
3745-33-08	A7	shall	That the permittee shall allow the director or the director's authorized representative to enter upon the permittee's premises.	6111.03	Federal	40 CFR 122.41(i)	yes	no	no
3745-33-08	A7	shall	The authorized representative shall have access to any records required to be kept under the terms of the permit and may copy any such records.	6111.03	Federal	40 CFR 122.41(i)	yes	no	no
3745-33-08	A7	shall	The director or the director's authorized representative shall have access to any monitoring equipment or wastewater treatment facilities operated by the permittee for the purpose of inspecting such equipment or method required in the permit and shall have access to point sources for the purposes of sampling the discharge.	6111.03	Federal	40 CFR 122.41(i)	yes	no	no
3745-33-08	A7	shall	The director or the director's authorized representative shall have access to any monitoring equipment or wastewater treatment facilities operated by the permittee for the purpose of inspecting such equipment or method required in the permit and shall have access to point sources for the purposes of sampling the discharge.	6111.03	Federal	40 CFR 122.41(i)	yes	no	no
3745-33-08	A8	shall	That the permittee shall maintain in good working order and operate at optimum levels in accordance with good engineering practices any wastewater treatment facilities or control systems installed to achieve compliance with the terms and conditions of the permit regardless of the quality of the effluent.	6111.03	Federal	40 CFR 122.41(e)	yes	no	no
3745-33-08	A9	shall	That the permittee shall provide adequately trained and qualified personnel as required by Chapter 3745-7 of the Administrative Code to operate such wastewater treatment facilities.	6111.03	General		yes	no	no
3745-33-08	A11	shall	That if a toxic effluent standard or prohibition (including a schedule of compliance) is established under section 307 (a) of the act for a toxic pollutant that is present in the permittee's discharge and such standards or prohibition (including a schedule of compliance) is more stringent than any limitation upon such pollutant in the NPDES permit, the director shall modify the permit in accordance with the toxic effluent standard and so notify the permittee	6111.03	Federal	40 CFR 122.4(b)	yes	yes	yes
3745-33-08	A12a	shall	A sign shall be posted at each outfall under permit. Outfalls covered by this provision include, but are not limited to, discharges of process wastewater, non-contact cooling water, sewage or discharges from remediation sites, and bypass or combined sewer overflow discharges.	6111.03	General		yes	no	no
3745-33-08	A12b	shall	The sign shall include, at a minimum, the name of the permittee, the permit number, and the outfall number identified in the permit.	6111.03	General		yes	no	no
3745-33-08	A12b	shall	The information shall be printed in letters not less than two inches high.	6111.03	General		yes	no	no
3745-33-08	A12c	shall	The sign shall be a minimum of two feet by two feet and the bottom of the sign shall be a minimum of three feet above the ground.	6111.03	General		yes	no	no
3745-33-08	A12c	shall	The sign shall be a minimum of two feet by two feet and the bottom of the sign shall be a minimum of three feet above the ground.	6111.03	General		yes	no	no
3745-33-08	B	shall	No NPDES permit shall be issued for a semi-public disposal system whenever the sewage system of a publicly owned treatment works is available and accessible.	6111.03	General	CWA Sec 208	yes	yes	no
3745-33-08	C	shall	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.	6111.03	General		yes	yes	no
3745-33-08	D2	shall	For purposes of paragraph (D)(1) of this rule, adequate notice shall include the following information:	6111.03	Federal	40 CFR 122.42(b)	yes	no	no
3745-33-08	F1	shall	Permits for facilities designated by the director as major discharges, in any of the following locations, shall require the permittee to notify the public water supply operator as soon as practicable after a discharge begins that results from a spill, separate sewer overflow, bypass, upset, or combined sewer overflow that reaches waters of the state:	6111.03	General		yes	no	no
3745-33-08	F2	shall	The director shall include in the permit a requirement for the permittee to have a notification plan with the public water supply operator that defines specific notification requirements and what constitutes notification "as soon as practicable."	6111.03	General		yes	no	yes
3745-33-08	F2	shall	In the affected permits, the director shall provide the telephone number and contact information related to the public water supply operator.	6111.03	General		yes	no	yes
3745-33-08	G	shall	The director shall include in the issuance of an Ohio NPDES permit any permit condition required by the act or regulations adopted by the administrator, including 40 C.F.R. 122 to 125, 129 to 133, 136, 400 to 471, 501 and 503	6111.03	General/Federal	See citations in description	yes	yes	yes

3745-33-08	A2	must	That facility expansions, production increases, or process modification that result in new or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such discharge does not violate effluent limitations specified in the NPDES permit, by submission to the director of notice of such new or increased discharge of pollutants.	6111.03	General/Federal	40 CFR 122.41(l), 40 CFR 122.42(a) and (b), 40 CFR 131.12	yes	no	no
3745-33-08	D1	must	All publicly owned treatment works (POTWs) must provide adequate notice to the director of the following:	6111.03	Federal	40 CFR 122.42(b)	yes	no	no
3745-33-08	A6	require	That the point source is equipped with instrumentation to monitor and record data and other information about the operation of the point source, if required by the director.	6111.03	General/Federal	40 CFR 122.48, 40 CFR 122.41(e) and (l)	yes	no	no
3745-33-08	A6	require	Reports of monitoring results obtained by the permittee shall be submitted annually (or on such a more frequent schedule as is required in the permit) to Ohio EPA.	6111.03	Federal	40 CFR 122.41(l)	yes	no	no
3745-33-08	A7	require	The authorized representative shall have access to any records required to be kept under the terms of the permit and may copy any such records	6111.03	Federal	40 CFR 122.41(i)	yes	no	no
3745-33-08	A7	require	The director or the director's authorized representative shall have access to any monitoring equipment or wastewater treatment facilities operated by the permittee for the purpose of inspecting such equipment or method required in the permit and shall have access to point sources for the purposes of sampling the discharge.	6111.03	Federal	40 CFR 122.41(i)	yes	no	no
3745-33-08	A9	require	That the permittee shall provide adequately trained and qualified personnel as required by Chapter 3745-7 of the Administrative Code to operate such wastewater treatment facilities.	6111.03	General/State		yes	no	no
3745-33-08	A10c	require	A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.	6111.03	Federal	40 CFR 122.64(a)(4)	yes	no	no
3745-33-08	A12a	require	Signs are not required at in-plant sampling outfalls, or at outfalls that are not accessible to the public by land or by recreational use of the water body.	6111.03	General		yes	no	no
3745-33-08	E	require	The director may require, as a permit condition or otherwise, electronic submittal of NPDES applications, reports and monitoring data using information systems compatible with those of Ohio EPA.	6111.03	General/Federal	40 CFR 127.11	yes	no	no
3745-33-08	F1	require	(1)Permits for facilities designated by the director as major discharges, in any of the following locations, shall require the permittee to notify the public water supply operator as soon as practicable after a discharge begins that results from a spill, separate sewer overflow, bypass, upset, or combined sewer overflow that reaches waters of the state:	6111.03	General		yes	no	no
3745-33-08	G	require	(G)The director shall include in the issuance of an Ohio NPDES permit any permit condition required by the act or regulations adopted by the administrator, including 40 C.F.R. 122 to 125, 129 to 133, 136, 400 to 471, 501 and 503.	6111.03	General/Federal	See cited rules. Need to add Part 127	yes	yes	no
3745-33-09	B	shall	When pollutant minimization programs are required under Chapter 3745-1, 3745-2, or 3745-33 of the Administrative Code, the pollutant minimization program shall be developed in accordance with this rule.	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B1	shall	The pollutant minimization program shall examine all potential sources of the pollutant with the goal of maintaining the effluent at or below the water quality-based effluent limit (WQBEL).	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B1	shall	The pollutant minimization program shall include, but is not limited to, all of the following:	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B1d	shall	An annual status report that shall be sent to Ohio EPA including the following information.	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B1d	shall	The report shall be submitted before March first of the following year, or, for discharges with approved pretreatment programs under Chapter 3745-3 of the Administrative Code, all of the following information shall be submitted with annual reports required under that chapter:	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B1d	shall	The report shall be submitted before March first of the following year, or, for discharges with approved pretreatment programs under Chapter 3745-3 of the Administrative Code, all of the following information shall be submitted with annual reports required under that chapter:	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B3	shall not	A pollutant minimization program shall not be required if the permittee demonstrates that the discharge of a pollutant with a WQBEL below the quantification level (QL) is reasonably expected to be in compliance with the WQBEL at the point of discharge into the receiving water.	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B4	shall	In determining appropriate cost-effective control measures to be implemented in a pollutant minimization program, the permittee shall consider all of the following factors:	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	B5	shall	The permit shall contain a reopener clause stating that the director may modify or revoke the permit to revise or remove the requirements of this rule if supported by information generated as a result of implementing the requirements of this rule.	6111.03	General/Federal	40 CFR 132 and Appendix F	yes	yes	no
3745-33-09	C1	shall	To implement this option, a TOMP shall be submitted to Ohio EPA for review and approval.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1	shall	The TOMP shall include the following information, or the plan shall explain why the information is not included:	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1	shall	The TOMP shall include the following information, or the plan shall explain why the information is not included:	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1cii	shall	Once pollution prevention options are identified, a technical and economic evaluation of viable options shall be conducted to select options or projects.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no

3745-33-09	C1cii	shall	A schedule shall be developed and a measurement system to track the implementation progress of the selected pollution prevention options shall be developed and revised as necessary.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1cii	shall	A schedule shall be developed and a measurement system to track the implementation progress of the selected pollution prevention options shall be developed and revised as necessary.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1d	shall	A detailed description for each waste shall be included with information on how the waste is stored prior to disposal.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1e	shall	These procedures shall include, but are not limited to the following:	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1ei	shall	These practices shall include, but are not limited to the following:	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1eif	shall	The containment system shall be designed and maintained to prevent leakage.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1eii	shall	Visual inspections shall be conducted at least once per week.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1eiv	shall	This plan shall include all floor drains, dikes and containment areas in the storage facility.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C2	shall	The permittee shall sample the discharge for all toxic organic pollutants included in the TTO definition at the point where the TTO limit applies.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C3	shall	In order to qualify for the alternative in paragraph (C) of this rule, the following criteria shall be met:	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C4	shall	Once every permit cycle, but no less frequently than once every five years, the TOMP shall be updated and the waste stream subject to TTO limits shall be sampled and analyzed for TTO, or those toxic organic compounds expected to be present.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C4	shall	Once every permit cycle, but no less frequently than once every five years, the TOMP shall be updated and the waste stream subject to TTO limits shall be sampled and analyzed for TTO, or those toxic organic compounds expected to be present.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1a	must	Chemical constituents of trade name products must be identified.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C1b	must	Estimates must include toxic organic chemicals discharges via process wastewater discharges, spills, leaks, rinse water carryover, air pollution control devices and other sources.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C3a	must	The baseline analysis must show compliance with the appropriate TTO standards.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C3b	must	An acceptable TOMP must be submitted.	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	C3c	must	The following certification statement must be signed by an officer of the company or manager responsible for overall plant operations, and submitted with the TOMP and each subsequent periodic compliance report:	6111.03	General/Federal	40 CFR 433 and 469	yes	no	no
3745-33-09	B	require	When pollutant minimization programs are required under Chapter 3745-1, 3745-2, or 3745-33 of the Administrative Code, the pollutant minimization program shall be developed in accordance with this rule.	6111.03	General/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-09	B1d	require	The report shall be submitted before March first of the following year, or, for discharges with approved pretreatment programs under Chapter 3745-3 of the Administrative Code, all of the following information shall be submitted with annual reports required under that chapter:	6111.03	General/Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-09	B3	require	A pollutant minimization program shall not be required if the permittee demonstrates that the discharge of a pollutant with a WQBEL below the quantification level (QL) is reasonably expected to be in compliance with the WQBEL at the point of discharge into the receiving water.	6111.03	Federal	40 CFR 132 Appendix F	yes	yes	no
3745-33-10		shall	Ohio NPDES permit applications shall be acted upon and challenged in accordance with provisions of Chapters 3745. and 119. of the Revised Code and Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03	State		yes	yes	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-36-01	C	shall	All local laws, regulations, and ordinances shall apply as long as these requirements are as stringent as, or more stringent than, any set forth in the pretreatment rules under Chapter 3745-3 of the Administrative Code and indirect discharge permit rules under this chapter.	6111.03(P), 6111.042	federal required	40 CFR 403.4	yes	yes	no
3745-36-02	N4b	require	The industrial user annually submits the certification statement required in paragraph (F)(3) of rule 3745-36-10 of the Administrative Code together with any additional information necessary to support the certification statement.	6111.03(P), 6111.042	federal required	40 CFR 403.12(q)	yes	yes	no
3745-36-02	S2f	require	Failure to provide, within forty-five days after the due date, required reports such as baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports, reports on compliance with compliance schedules, or any other reports required by the director.	6111.03(P), 6111.042	federal required	40 CFR 403.8(f)(2)(viii)(F)	yes	yes	no
3745-36-02	S2f	require	Failure to provide, within forty-five days after the due date, required reports such as baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports, reports on compliance with compliance schedules, or any other reports required by the director.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-02	P7	prohibit	The reduction or alteration may be obtained by physical, chemical, or biological treatment processes, by BMPs, by pollution prevention alternatives including process changes, material substitutions, improved operating practices and recycling, or by other means, except as prohibited by paragraph (F) of rule 3745-36-09 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.3(s)	yes	yes	no
3745-36-02	P9b	prohibit	Prohibited discharges established pursuant to rule 3745-36-04 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.3(l)	yes	yes	no
3745-36-03	B	shall not	The requirement to obtain an individual indirect discharge permit in accordance with this rule or coverage under an indirect discharge permit-by-rule as specified in rule 3745-36-06 of the Administrative Code shall not apply to any industrial user that is under the regulatory jurisdiction of a POTW that has an approved pretreatment program in accordance with the provisions of Chapter 3745-3 of the Administrative Code, except in the context of an enforcement action.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.10(f)(2)(i), 403.10(e), 403.10(f)(1)	yes	yes	no
3745-36-03	C	shall	Where a POTW's pretreatment program approval has been withdrawn or revoked, all significant industrial users and non-significant categorical industrial users of the POTW shall be required to apply for an indirect discharge permit in accordance with this chapter no later than ninety days from the date on which the industrial user was notified of the withdrawal or revocation of the pretreatment program approval.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	D	shall	Industrial users required to obtain an individual indirect discharge permit for the first time shall submit the application required in paragraph (H) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	D	shall	In addition, the application shall include an authorization to discharge by the POTW, as described in paragraph (I) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	D	shall	A complete application shall be submitted in accordance with the corresponding time frame, as follows:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	E1	shall	Any permittee who wishes to continue to discharge after the expiration of the permittee's individual indirect discharge permit shall submit a complete application for renewal of the permit at least one hundred eighty days prior to the expiration of the permit.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	E1	shall	The application shall contain the information required in paragraph (H) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	E1	shall	If the industrial user wishes to request less stringent permit conditions, new pollutants, or increases in pollutant concentrations or loadings, the industrial user's application shall include the authorization to discharge by the POTW, as described in paragraph (I) of this rule	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	E2	shall	Individual indirect discharge permits shall be renewed in accordance with the provisions for issuance of permits under this chapter.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	E3	shall	In renewing a permit, the director shall consider the compliance history of the permit holder and may deny the renewal if the director determines that the permit holder has not complied with the terms and conditions of the existing permit.	6111.03(P), 6111.042	general authority		yes	no	yes
3745-36-03	E3	shall	If a permit renewal application is submitted at least one hundred eighty days prior to the expiration date of the existing permit, and the director proposes to deny the renewal of the permit in accordance with rule 3745-49-05 of the Administrative Code, the expired permit shall continue to be in effect in accordance with section 119.06 of the Revised Code until such time as the director issues a final action.	6111.03(P), 6111.042	state required	ORC 119.06	yes	no	no

3745-36-03	F4a	shall	Except for minor modifications, applications for modifications of individual indirect discharge permits at the request of the permittee shall include the information required in paragraphs (H) and (I) of this rule and a description of the proposed change.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F4a	shall	This information shall be submitted on current forms prepared by and obtained from Ohio EPA and shall contain such information as Ohio EPA deems necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F4a	shall	This information shall be submitted on current forms prepared by and obtained from Ohio EPA and shall contain such information as Ohio EPA deems necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F4b	shall	For minor modification requests, as described in paragraph (F)(3) of this rule, the industrial user shall describe the requested change and any other information required by the Ohio EPA.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F5	shall	A modification application for an individual indirect discharge permit submitted by the permittee shall be signed using the same signatory requirements required for a permit application pursuant to paragraph (H)(3) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	H1	shall	Applications for individual indirect discharge permits shall be submitted on current forms prepared by and obtained from Ohio EPA, and shall contain such information as Ohio EPA deems necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	H1	shall	Applications for individual indirect discharge permits shall be submitted on current forms prepared by and obtained from Ohio EPA, and shall contain such information as Ohio EPA deems necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	H2	shall	A written explanation of the deficiency shall accompany the returned application.	6111.03(P), 6111.042	general authority		yes	no	yes
3745-36-03	H3	shall	An application submitted to the director pursuant to this chapter shall be signed in one of the following ways:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(l)	yes	yes	no
3745-36-03	I1	shall	If required by paragraph (D), (E), or (F) of this rule, an industrial user discharging to a POTW not administering an approved pretreatment program shall be issued an individual indirect discharge permit only upon the written authorization of the POTW.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	I1	shall	The applicant shall obtain written authorization from the POTW and shall submit said authorization to Ohio EPA with the individual indirect discharge permit application.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	I1	shall	The applicant shall obtain written authorization from the POTW and shall submit said authorization to Ohio EPA with the individual indirect discharge permit application.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	I2	shall	The written authorization letter from the POTW to the industrial user shall be submitted to Ohio EPA and shall include, but not be limited to, all of the following information and signatory requirements:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	I2	shall	The written authorization letter from the POTW to the industrial user shall be submitted to Ohio EPA and shall include, but not be limited to, all of the following information and signatory requirements:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	J2	shall	The director shall have the authority to disqualify any industrial discharger from coverage under an indirect discharge permit-by-rule or deny an application for an individual indirect discharge permit if either of the following apply:	6111.03(P), 6111.042	general authority		yes	no	yes
3745-36-03	K1	shall	An individual indirect discharge permit shall be effective for a fixed term not to exceed five years.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.10(e), 40 CFR 403.8(f)(1)(iii)(B)(1)	yes	yes	no
3745-36-03	M	shall	Applicability of rules of procedure. Indirect discharge permit applications and modification requests shall be acted upon and may be challenged in accordance with the provisions in Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	yes
3745-36-03	A	require	Any significant industrial user or non-significant categorical industrial user, as defined in rule 3745-36-02 of the Administrative Code, is required to apply for and obtain an individual indirect discharge permit in accordance with this chapter.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	C	require	Where a POTW's pretreatment program approval has been withdrawn or revoked, all significant industrial users and non-significant categorical industrial users of the POTW shall be required to apply for an indirect discharge permit in accordance with this chapter no later than ninety days from the date on which the industrial user was notified of the withdrawal or revocation of the pretreatment program approval.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	D	require	Industrial users shall be required to obtain an individual indirect discharge permit for the first time shall submit the application required in paragraph (H) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	D	require	Industrial users shall be required to obtain an individual indirect discharge permit for the first time shall submit the application required in paragraph (H) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	E1	require	The application shall contain the information required in paragraph (H) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F2e	require	When required to incorporate an applicable toxic effluent standard or prohibition under section 307(a) of the act.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F2g	require	When required by reopener conditions in a permit.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F3bii	require	Require more frequent monitoring or reporting by the permittee.	6111.03(P), 6111.042	general authority		yes	no	no

3745-36-03	F4a	require	Except for minor modifications, applications for modifications of individual indirect discharge permits at the request of the permittee shall include the information required in paragraphs (H) and (I) of this rule and a description of the proposed change.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F4b	require	For minor modification requests, as described in paragraph (F)(3) of this rule, the industrial user shall describe the requested change and any other information required by the Ohio EPA.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	F5	require	A modification application for an individual indirect discharge permit submitted by the permittee shall be signed using the same signatory requirements required for a permit application pursuant to paragraph (H)(3) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	H1	require	The director may require as a permit condition or otherwise, electronic submittal of an application using information systems compatible with those of Ohio EPA.	6111.03(P), 6111.042	general authority		yes	no	yes
3745-36-03	I1	require	If required by paragraph (D), (E), or (F) of this rule, an industrial user discharging to a POTW not administering an approved pretreatment program shall be issued an individual indirect discharge permit only upon the written authorization of the POTW.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	J1b	require	If applicable, BMPs, pollution prevention plans and monitoring to obtain required pollutant discharge information are provided for.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(b)(5)(ii)	yes	yes	no
3745-36-03	J1c	require	If required by Ohio EPA, performance tests, conducted at the applicant's expense after the application was filed and in accordance with methods prescribed by Ohio EPA, demonstrate that the discharge is in compliance with the authorized discharge levels pursuant to applicable pretreatment standards and to rule 3745-36-04 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-03	J2a	prohibit	The director has reason to believe that any of the prohibited substances in rule 3745-36-04 of the Administrative Code will be discharged.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.3(l), 403.8(f)(1)(i), 403.10(e)	yes	yes	no
3745-36-04	A	shall not	Pollutants introduced into a POTW by an industrial user shall not pass through the POTW or interfere with the operation or performance of the POTW.	6111.03(P), 6111.042	federal required	40 CFR 403.5(a)(1)	yes	yes	no
3745-36-04	B	shall	None of the following described substances shall be introduced into a POTW:	6111.03(P), 6111.042	federal required	40 CFR 403.5(b)	yes	yes	no
3745-36-04	C	shall	No industrial user shall discharge any pollutant in violation of applicable pretreatment standards.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-04	D	require	In cases where pollutants contributed by an industrial user may result or have resulted in interference or pass through of the POTW and such violation is likely to recur, the director may require POTWs that are not required to develop a pretreatment program pursuant to paragraph (A) of rule 3745-3-03 of the Administrative Code, to develop and enforce BMPs and specific technically supported effluent limits for an industrial user, and all other users, as appropriate, that together with appropriate changes in the POTW's treatment plant's facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit, or sludge use or disposal practices.	6111.03(P), 6111.042	federal required	40 CFR 403.5(c)(2)	yes	yes	yno
3745-36-04	D	require	In cases where pollutants contributed by an industrial user may result or have resulted in interference or pass through of the POTW and such violation is likely to recur, the director may require POTWs that are not required to develop a pretreatment program pursuant to paragraph (A) of rule 3745-3-03 of the Administrative Code, to develop and enforce BMPs and specific technically supported effluent limits for an industrial user, and all other users, as appropriate, that together with appropriate changes in the POTW's treatment plant's facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit, or sludge use or disposal practices.	6111.03(P), 6111.042	federal required	40 CFR 403.5(c)(2)	yes	yes	no
3745-36-04	Title	prohibit	Prohibited discharges.	6111.03(P), 6111.042	federal required	40 CFR 403.5	yes	yes	no
3745-36-05	A	shall	All industrial users shall notify the POTW immediately of all discharges that could cause problems to the POTW, including any slug loading, as defined in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.12(f)	yes	yes	no
3745-36-05	A	shall	The industrial user shall immediately notify the POTW and Ohio EPA upon discovery of any slug load as follows:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(f)	yes	yes	no
3745-36-05	A1	shall	Immediately upon the discovery of a slug load, the industrial user shall provide all of the following:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.16(c)(3), 403.17(c)(2)	yes	yes	no
3745-36-05	A2	shall	Within five business days of the day when the slug load occurred, a written report containing the information required by paragraph (A)(1) this rule shall be filed with the POTW and the appropriate district office of Ohio EPA.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.8(f)(2)(vi)(c)	yes	yes	no
3745-36-05	B	shall	An industrial user determined by Ohio EPA to need a slug control plan shall maintain posted signs in conspicuous places that Ohio EPA deems acceptable, advising employees whom to call in the event of a slug load discharge.	6111.03(P), 6111.042	general authority		yes	no	no

3745-36-05	B	shall	The signs shall instruct all employees who may cause or discover such a discharge with respect to the notification procedure required by this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-05	A2	require	Within five business days of the day when the slug load occurred, a written report containing the information required by paragraph (A)(1) this rule shall be filed with the POTW and the appropriate district office of Ohio EPA.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.8(f)(2)(vi)(c)	yes	yes	no
3745-36-05	B	require	The signs shall instruct all employees who may cause or discover such a discharge with respect to the notification procedure required by this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-06	A	shall	Notwithstanding any other provision of this chapter, an industrial user shall be deemed to have an indirect discharge permit-by-rule if the industrial user meets all of the following conditions:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-06	B	shall	An industrial user that does not qualify for an indirect discharge permit-by-rule in accordance with this rule shall submit an application for an individual indirect discharge permit as specified in rule 3745-36-03 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-07	A	shall	Any record, report, or other information obtained under this chapter shall be available to the public, except upon a showing satisfactory to the director that all or part of such record, report, or other information, other than effluent data, would divulge methods or processes entitled to protection as trade secrets, in which instance Ohio EPA shall consider such record, report, or other information or part thereof as confidential and administer such record, report, or other information pursuant to this rule.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.14, ORC 6111.05 (A)	yes	yes	no
3745-36-07	A	shall	Any record, report, or other information obtained under this chapter shall be available to the public, except upon a showing satisfactory to the director that all or part of such record, report, or other information, other than effluent data, would divulge methods or processes entitled to protection as trade secrets, in which instance Ohio EPA shall consider such record, report, or other information or part thereof as confidential and administer such record, report, or other information pursuant to this rule.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.14(b), ORC 6111.05(A), 40 CFR 2.302	yes	yes	yes
3745-36-07	A	shall not	Wastewater constituents and characteristics and other effluent data, as defined in 40 C.F.R. 2.302, shall not be considered confidential information and shall be available to the public without restriction.	6111.03(P), 6111.042	federal required / general authority	6111.05(A), 40 CFR 2.302, 40 CFR 403.14 (b)	yes	yes	no
3745-36-07	A	shall	Wastewater constituents and characteristics and other effluent data, as defined in 40 C.F.R. 2.302, shall not be considered confidential information and shall be available to the public without restriction.	6111.03(P), 6111.042	federal required	40 CFR 403.14(b)	yes	yes	no
3745-36-07	A	shall	All other information that is submitted to the state or POTW shall be available to the public at least to the extent provided by 40 C.F.R. 2.302.	6111.03(P), 6111.042	federal required	40 CFR 403.14(c)	yes	yes	no
3745-36-07	B	shall	A request for confidential treatment shall be submitted to Ohio EPA simultaneously with submission of the specific record, report, or other information with documentation sufficient to support that the record, report, or other information is confidential.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.14(a)	yes	yes	no
3745-36-07	B	shall	Failure to make such timely request shall constitute a waiver of the right to prevent public disclosure.	6111.03(P), 6111.042	federal authority	40 CFR 403.14(a)	yes	yes	no
3745-36-07	C	shall	A decision as to whether to treat the record, report, or other information as confidential shall be made by the director within forty-five days of receipt of the request and accompanying documentation.	6111.03(P), 6111.042	general authority		yes	no	yes
3745-36-07	C	shall	Until such decision is made, the record, report, or other information or part thereof, shall be treated as confidential.	6111.03(P), 6111.042	general and federal	40 CFR 2.205	yes	yes	no
3745-36-07	C	shall	The person requesting confidentiality shall be notified in writing of the director's decision.	6111.03(P), 6111.042	general and federal	40 CFR 2.205	yes	yes	yes
3745-36-08	A	shall	These reports shall contain all results of sampling required by the individual indirect discharge permit.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(6), (e)(1), (h)	yes	yes	no
3745-36-08	A1	shall	Industrial users subject to pretreatment standards after the compliance date of such pretreatment standard, or in the case of a new source, after commencement of discharge into the POTW, shall submit a periodic compliance monitoring report to Ohio EPA and the POTW during the months of June and December, unless any of the following apply:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A2	shall	The periodic compliance monitoring report shall include all of the following information:	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A2b	shall	The reported flow information shall include all of the following information:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A3	shall	In cases where the pretreatment standard requires compliance with a BMP or a pollution prevention alternative, the report shall include documentation required by Ohio EPA or the pretreatment standard necessary to determine the compliance status of the user.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(1), (h)	yes	yes	no

3745-36-08	B	shall	Sampling and analysis performed in preparation of any report required by this chapter shall be conducted in accordance with all of the following:	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)	yes	yes	no
3745-36-08	B1	shall	The individual indirect discharge permit application, initial compliance report, and periodic compliance report required in this chapter, shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, in which data is representative of conditions occurring during the reporting period	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-36-08	B2	shall	The Ohio EPA shall require that frequency of monitoring necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	yes
3745-36-08	B3	shall	Grab samples shall be used for pH, hexavalent chromium, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(3), 40 CFR 136	yes	yes	no
3745-36-08	B4	shall	For all other pollutants, twenty-four-hour composite samples shall be obtained through flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by Ohio EPA.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-36-08	B5	shall	Where time-proportional composite sampling or grab sampling is authorized by the director, the samples shall be representative of the discharge and the decision to allow the alternative sampling shall be documented by the industrial user.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-36-08	B5	shall	Where time-proportional composite sampling or grab sampling is authorized by the director, the samples shall be representative of the discharge and the decision to allow the alternative sampling shall be documented by the industrial user.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(3)	yes	yes	no
3745-36-08	B7a	shall	A minimum of four grab samples shall be used for pH, hexavalent chromium, cyanide, total phenols, oil and grease, sulfide, and volatile organics for facilities for which historical sampling data do not exist.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(4)	yes	yes	no
3745-36-08	B7c	shall	For all other pollutants, twenty-four-hour composite samples shall be obtained through flow-proportional composite sampling techniques, unless flow-proportional sampling is waived by the director.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-36-08	B8	shall	For the periodic compliance report required by paragraph (A) of this rule, the Ohio EPA shall require the number of grab samples necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)-(4)	yes	yes	yes
3745-36-08	B8	shall	The required number of grab samples shall only apply for pollutants listed in paragraph (B)(3) of this rule, or where grab sampling is authorized by the director in accordance with paragraph (B)(5) of this rule.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(3)-(4)	yes	yes	no
3745-36-08	B9	shall	Samples shall be taken immediately downstream from pretreatment facilities, if such exist, or immediately downstream from the regulated process if no pretreatment exists.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(b)(5)(iv)	yes	yes	no
3745-36-08	B9	shall	If the wastewaters regulated by categorical standards mix with other wastestreams prior to pretreatment, the user shall measure the flows and concentrations necessary to allow use of the combined wastestream formula under paragraph (H) of rule 3745-36-10 of the Administrative Code in order to evaluate compliance with the categorical pretreatment standards.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(b)(5)(iv)	yes	yes	no
3745-36-08	B10	shall	Except as otherwise provided in this rule, sampling and analysis shall be performed in accordance with the techniques prescribed in 40 C.F.R. 136.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(5)	yes	yes	no
3745-36-08	B10	shall	Where 40 C.F.R. 136 does not contain sampling or analytical techniques for the pollutant in question, or where the director determines that the 40 C.F.R. 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed by using analytical methods or other applicable sampling and analytical procedures approved by the director.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(5)	yes	yes	no
3745-36-08	B12	shall	Unless paragraph (B)(12)(c) of this rule applies, repeat sampling and analysis shall be performed within thirty days after the industrial user or Ohio EPA becomes aware of the violation.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-36-08	B12a	shall	If sampling performed by an industrial user indicates a violation, the user shall notify Ohio EPA within twenty-four hours of becoming aware of the violation.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-36-08	B12a	shall	The user shall also repeat the sampling and analysis and submit the results of the repeat analysis to Ohio EPA within thirty days after becoming aware of the violation.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-36-08	B12b	shall	If sampling and analysis performed by Ohio EPA under paragraph (B)(11) of this rule indicates a violation, Ohio EPA shall perform the repeat sampling and analysis unless Ohio EPA notifies the user of the violation and requires the user to perform the repeat analysis.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(2)	yes	yes	yes

3745-36-08	B13	shall	If an industrial user subject to the reporting requirement in paragraph (A) of this rule monitors any regulated pollutant at the permitted sampling location more frequently than required by Ohio EPA, using the procedures described in paragraph (B)(10) of this rule, the results of this monitoring shall be included in the report.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(6)	yes	yes	no
3745-36-08	C	shall	The reports and certifications required by this rule shall include the following certification statement and shall be signed by an authorized representative of the industrial user:	6111.03(P), 6111.042	federal required	40 CFR 403.12(l)	yes	yes	no
3745-36-08	C	shall	The reports and certifications required by this rule shall include the following certification statement and shall be signed by an authorized representative of the industrial user:	6111.03(P), 6111.042	federal required	40 CFR 403.12(l)	yes	yes	no
3745-36-08	C2e	shall	If an authorization under paragraph (C)(2)(d) of this rule is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (C)(2)(d) of this rule shall be submitted to the control authority prior to or together with any reports to be signed by an authorized representative.	6111.03(P), 6111.042	federal required	40 CFR 403.12(l)(4)	yes	yes	no
3745-36-08	D	shall	If Ohio EPA decides that a slug control plan is necessary, the industrial user shall develop and submit a slug control plan which contains, at a minimum, all of the following elements:	6111.03(P), 6111.042	federal required	40 CFR 403.10(e), 40 CFR 403.8(f)(2)(vi)	yes	yes	no
3745-36-08	E	shall	All industrial users shall promptly notify Ohio EPA and the POTW in advance of any substantial change in the volume or character of pollutants in the discharge including the listed or characteristic hazardous wastes for which the industrial user has submitted initial notification under 40 C.F.R. 403.12(p).	6111.03(P), 6111.042	federal required	40 CFR 403.12(j)	yes	yes	no
3745-36-08	E	shall	Industrial users shall notify the POTW immediately of any changes at the facilities affecting potential for a slug discharge.	6111.03(P), 6111.042	federal required	40 CFR 403.12(f)	yes	yes	no
3745-36-08	F	shall	All industrial users subject to this rule shall retain records of all information resulting from any monitoring activities, regardless of whether such monitoring activities were required by the individual indirect discharge permit, including documentation associated with BMPs.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(o)(1)	yes	yes	no
3745-36-08	F	shall	Such records shall be retained for a minimum of three years and shall include the following for all samples:	6111.03(P), 6111.042	federal required	40 CFR 403.12(o)(2)	yes	yes	no
3745-36-08	F	shall	Such records shall be retained for a minimum of three years and shall include the following for all samples:	6111.03(P), 6111.042	federal required	40 CFR 403.12(o)(1)	yes	yes	no
3745-36-08	G	shall	In addition to the requirements in paragraph (F) of this rule, any industrial user subject to this rule shall retain all of the following for a minimum of three years:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(o)(2)	yes	yes	no
3745-36-08	H	shall	Industrial users subject to this rule shall retain all copies of the individual indirect discharge permits and pollution prevention alternatives (i.e. slug control plan, toxic organic management plan) for as long as these documents are effective and for at least three years after the date on which the documents became ineffective.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-08	I	shall	Industrial users shall make the records described in paragraphs (F) to (H) of this rule available for inspection and copying by the Ohio EPA.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(o)(2)	yes	yes	no
3745-36-08	I	shall	The period of retention described in paragraphs (F) to (H) of this rule shall be extended during the course of any unresolved litigation regarding the discharge of pollutants or the operation of the POTW or when requested by the director.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(o)(2)	yes	yes	no
3745-36-08	A	require	These reports shall contain all results of sampling required by the individual indirect discharge permit.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A1a	require	The report is required more frequently.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A1b	require	The report is required during different months by the categorical pretreatment standard or Ohio EPA.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A1c	require	Reduced reporting requirements have been approved in accordance with rule 3745-36-10 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(3)	yes	yes	no
3745-36-08	A3	require	In cases where the pretreatment standard requires compliance with a BMP or a pollution prevention alternative, the report shall include documentation required by Ohio EPA or the pretreatment standard necessary to determine the compliance status of the user.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	A3	require	In cases where the pretreatment standard requires compliance with a BMP or a pollution prevention alternative, the report shall include documentation required by Ohio EPA or the pretreatment standard necessary to determine the compliance status of the user.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(1), (h)	yes	yes	no

3745-36-08	A4	require	For mid-tier categorical industrial users as authorized in accordance with rule 3745-36-09 of the Administrative Code, Ohio EPA may reduce the frequency of the reporting specified in paragraph (A)(2)(a) of this rule to no less than once per year, unless required more frequently in the pretreatment standard.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(3)	yes	yes	no
3745-36-08	B	require	Sampling and analysis performed in preparation of any report required by this chapter shall be conducted in accordance with all of the following:	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)	yes	yes	no
3745-36-08	B1	require	The individual indirect discharge permit application, initial compliance report, and periodic compliance report required in this chapter, shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, in which data is representative of conditions occurring during the reporting period.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	no
3745-36-08	B2	require	The Ohio EPA shall require that frequency of monitoring necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3)	yes	yes	yes
3745-36-08	B7	require	For the individual indirect discharge permit application and the initial compliance report required in rules 3745-36-03 and 3745-36-09 of the Administrative Code:	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-36-08	B8	require	For the periodic compliance report required by paragraph (A) of this rule, the Ohio EPA shall require the number of grab samples necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(4)	yes	yes	no
3745-36-08	B8	require	For the periodic compliance report required by paragraph (A) of this rule, the Ohio EPA shall require the number of grab samples necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(3) and (g)(4)	yes	yes	yes
3745-36-08	B8	require	The required number of grab samples shall only apply for pollutants listed in paragraph (B)(3) of this rule, or where grab sampling is authorized by the director in accordance with paragraph (B)(5) of this rule.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(3)-(4)	yes	yes	no
3745-36-08	B11	require	Except in the case of non-significant categorical industrial users, the Ohio EPA may perform the sampling and analysis required in this chapter in lieu of the industrial user.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-36-08	B11	require	Where Ohio EPA performs the required sampling and analysis in lieu of the industrial user, both of the following apply:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(g)(1)	yes	yes	no
3745-36-08	B11a	require	The industrial user will not be required to submit the compliance certification statement required in paragraph (C) of this rule.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-36-08	B11a	require	The industrial user will not be required to submit the compliance certification statement required in paragraph (C) of this rule.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-36-08	B11b	require	The industrial user will not be required to submit the report if Ohio EPA collects all the information required for the report.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-36-08	B11b	require	The industrial user will not be required to submit the report if Ohio EPA collects all the information required for the report.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(1)	yes	yes	no
3745-36-08	B12b	require	If sampling and analysis performed by Ohio EPA under paragraph (B)(11) of this rule indicates a violation, Ohio EPA shall perform the repeat sampling and analysis unless Ohio EPA notifies the user of the violation and requires the user to perform the repeat analysis.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-36-08	B12c	require	Resampling is not required if either of the following apply:	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(2)	yes	yes	no
3745-36-08	B13	require	If an industrial user subject to the reporting requirement in paragraph (A) of this rule monitors any regulated pollutant at the permitted sampling location more frequently than required by Ohio EPA, using the procedures described in paragraph (B)(10) of this rule, the results of this monitoring shall be included in the report.	6111.03(P), 6111.042	federal required	40 CFR 403.12(g)(6)	yes	yes	no
3745-36-08	B14	require	Ohio EPA may require an industrial user to install flow monitoring facilities, instruments, and recording devices to enable accurate measurement of flows as determined to be necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-08	C	require	The reports and certifications required by this rule shall include the following certification statement and shall be signed by an authorized representative of the industrial user:	6111.03(P), 6111.042	federal required	40 CFR 403.12(l)	yes	yes	no
3745-36-08	C2a	require	A responsible corporate officer, if the industrial user submitting the reports required by this rule is a corporation.	6111.03(P), 6111.042	federal required	40 CFR 403.12(l)(1)	yes	yes	no
3745-36-08	D	require	Ohio EPA may require the industrial user to develop and submit a slug control plan.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.10(e), 40 CFR 403.8(f)(2)(vi)	yes	yes	no
3745-36-08	F	require	All industrial users subject to this rule shall retain records of all information resulting from any monitoring activities, regardless of whether such monitoring activities were required by the individual indirect discharge permit, including documentation associated with BMPs.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(o)(1)	yes	yes	no

3745-36-08	J	require	As a permit condition or otherwise, the director may require electronic submittal of the reports and monitoring data required in this chapter using information systems compatible with those of Ohio EPA.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-08	J	require	As a permit condition or otherwise, the director may require electronic submittal of the reports and monitoring data required in this chapter using information systems compatible with those of Ohio EPA.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(1), (h)	yes	yes	no
3745-36-09	A	shall	In addition to the requirements specified in rule 3745-36-08 of the Administrative Code, categorical industrial users shall comply with the reporting requirements and limits specified in this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-09	B	shall	Within ninety days following the date for final compliance with applicable categorical pretreatment standards or, in the case of a new source, within ninety days following commencement of the introduction of wastewater into the POTW, any industrial user subject to categorical pretreatment standards shall submit to Ohio EPA a report containing all of the following information:	6111.03(P), 6111.042	federal required	40 CFR 403.12(d)	yes	yes	no
3745-36-09	B2a	shall	The user shall identify the pretreatment standards applicable to each regulated process.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(i)	yes	yes	no
3745-36-09	B2b	shall	Sampling and analysis shall be performed in accordance with paragraph (B) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(v)	yes	yes	no
3745-36-09	B2c	shall	The user shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the standard or control authority) of regulated pollutants in the discharge from each regulated process.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2c	shall	Both daily maximum and average concentration (or mass, where required) shall be reported.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2c	shall	The sample shall be representative of daily operations.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2c	shall	If the standard requires compliance with a BMP or a pollution prevention alternative, the industrial user shall submit documentation as required by Ohio EPA or the applicable standards to determine compliance with the standard.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2d	shall	The user shall take a minimum of one representative sample from each sampling location, as approved by Ohio EPA, to comply with the requirements of this paragraph.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(iii)	yes	yes	no
3745-36-09	B2f	shall	The report shall indicate the time, date and place, of sampling, and methods of analysis.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(vii)	yes	yes	no
3745-36-09	B3	shall	For industrial users subject to equivalent mass or concentration limits established by Ohio EPA in accordance with the procedures in rule 3745-36-10 of the Administrative Code, this report shall contain a reasonable measure of the user's long-term production rate.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d)	yes	yes	no
3745-36-09	B3 comment	shall	The industrial user shall derive these production rates to the best of the user's knowledge, and considering any available information representative of the facility.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-09	B4	shall	For all industrial users subject to categorical pretreatment standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the user's actual production during the appropriate sampling period.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d)	yes	yes	no
3745-36-09	C	shall	Categorical industrial users shall comply with the limits under rule 3745-36-04 of the Administrative Code, and with any more stringent pretreatment standards, including local limits.	6111.03(P), 6111.042	federal required	40 CFR 403.3(l), 40 CFR 403.6, 40 CFR 403.8(f)(1)(ii), 40 CFR 403.10 (f)(1)(i) and (ii)	yes	yes	no
3745-36-09	D	shall	Existing sources that become industrial users subsequent to promulgation of an applicable categorical pretreatment standard shall be considered existing industrial users except where such sources meet the definition of a new source as defined in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.6(b)	yes	yes	no
3745-36-09	E	shall	New sources shall comply with the pretreatment standard for new sources (PSNS) that is specified in the applicable subcategory of the categorical pretreatment standard.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.6	yes	yes	no
3745-36-09	F	shall	Except where expressly authorized to do so by an applicable categorical pretreatment standard or requirement, no industrial user shall ever increase the use of process water or, in any other way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a pretreatment standard or requirement.	6111.03(P), 6111.042	federal required	40 CFR 403.6(d)	yes	yes	no
3745-36-09	G	shall	Limits in categorical pretreatment standards shall apply to the effluent of the process regulated by the standard, or as otherwise specified by the standard.	6111.03(P), 6111.042	federal required	40 CFR 403.6(c)(1)	yes	yes	no

3745-36-09	H	shall	Unless otherwise provided in an applicable categorical pretreatment standard, compliance with such standards shall be measured in accordance with the methods of analyses and sampling procedures specified under rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.6(e)(3), 40 CFR 403.12(g)	yes	yes	no
3745-36-09	I	shall	In all cases in which a determination is sought by an industrial user concerning the applicability of a particular subcategory under the categorical pretreatment standards, the final determination issued under 40 C.F.R. 403.6 shall control the application of the appropriate subcategory.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.6(a)	yes	yes	no
3745-36-09	I	shall	There shall be no right or procedure implied under this chapter for industrial users to seek such categorical determinations from the director other than through the procedures and within the requirements of 40 C.F.R. 403.6.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-09	B2c	require	The user shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the standard or control authority) of regulated pollutants in the discharge from each regulated process.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2c	require	. Both daily maximum and average concentration (or mass, where required) shall be reported.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2c	require	If the standard requires compliance with a BMP or a pollution prevention alternative, the industrial user shall submit documentation as required by Ohio EPA or the applicable standards to determine compliance with the standard.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B2c	require	If the standard requires compliance with a BMP or a pollution prevention alternative, the industrial user shall submit documentation as required by Ohio EPA or the applicable standards to determine compliance with the standard.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(5)(ii)	yes	yes	no
3745-36-09	B5	require	A statement, reviewed, signed, and certified by an authorized representative of the industrial user, as defined in paragraph (C) of rule 3745-36-08 of the Administrative Code, indicating whether pretreatment standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O and M) or additional pretreatment is required for the industrial user to meet the pretreatment standards and requirements.	6111.03(P), 6111.042	federal required	40 CFR 403.12(d), 403.12(b)(6)	yes	yes	no
3745-36-10	A	shall	Categorical industrial users shall comply with the requirements in rules 3745-36-08 and 3745-36-09 of the Administrative Code, and any alternative condition described in this rule that has been approved by Ohio EPA and incorporated into the categorical industrial user's indirect discharge permit or the director's written approval.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	B1	shall	The categorical industrial user shall first submit the initial compliance report as described in paragraph (A) of rule 3745-36-09 of the Administrative Code, or a periodic compliance report as described in paragraph (B) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	B2	shall	The categorical industrial user shall submit a formal request to Ohio EPA for the approval of an alternative condition initially and prior to each subsequent renewal of such condition.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(2)(ii)	yes	yes	no
3745-36-10	B2	shall	The request shall include the information described in paragraphs (D) to (H) of this rule, as applicable, and the certification statement in paragraph (C)(1) of rule 3745-36-08 of the Administrative Code, and shall be signed by an authorized representative, as defined in paragraph (C)(2) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	general authority and federal required	40 CFR 403.12(e)(2)(iii)	yes	yes	no
3745-36-10	B2	shall	The request shall include the information described in paragraphs (D) to (H) of this rule, as applicable, and the certification statement in paragraph (C)(1) of rule 3745-36-08 of the Administrative Code, and shall be signed by an authorized representative, as defined in paragraph (C)(2) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(l), 40 CFR 403.12(e)(2)(iii)	yes	yes	no
3745-36-10	B5	shall	Industrial users implementing any of the alternative conditions described in paragraphs (D) to (H) of this rule shall maintain compliance with the records retention requirements described in paragraphs (F) to (I) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	B5	shall	In addition, the industrial user shall maintain both of the following for a minimum of three years after the date on which they become ineffective:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	B6	shall	Industrial users implementing any of the alternative conditions described in paragraphs (D) to (H) of this rule shall maintain compliance with the notification requirements described in rule 3745-36-05 of the Administrative Code.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(f)	yes	yes	no
3745-36-10	D2	shall	In making a demonstration that a pollutant is not present, the industrial user shall provide data from at least one sampling of the facility's process wastewater prior to any treatment present at the facility that is representative of all wastewater from all processes.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(2)(iii)	yes	yes	no

3745-36-10	D3	shall	Upon Ohio EPA's approval of the monitoring waiver and implementation of the industrial user's individual indirect discharge permit, the industrial user shall certify on each periodic compliance monitoring report required by paragraph (A) of rule 3745-36-08 of the Administrative Code with the following statement:	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(2)(v)	yes	yes	no
3745-36-10	D4	shall	In the event that a waived pollutant is found to be present or is expected to be present based on changes that occur in the industrial user's operations, the user shall immediately meet both of the following:	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(2)(vi)	yes	yes	no
3745-36-10	E1	shall	The industrial user shall submit a request to Ohio EPA for a determination of the user's status as a mid-tier categorical industrial user which shall include documentation that the industrial user meets all of the criteria of a mid-tier categorical industrial user.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	E1	shall	The industrial user shall submit a request to Ohio EPA for a determination of the user's status as a mid-tier categorical industrial user which shall include documentation that the industrial user meets all of the criteria of a mid-tier categorical industrial user.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	E1	shall	This request shall be signed in accordance with paragraph (C) of rule 3745-36-08 of the Administrative Code, and include the certification statement in paragraph (C)(1) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(l)	yes	yes	no
3745-36-10	E2	shall	The industrial user shall notify Ohio EPA immediately of any changes at the facility causing the user to no longer meet the definition of a mid-tier categorical industrial user in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(3)(iv)	yes	yes	no
3745-36-10	E2	shall	Upon notification, the industrial user shall immediately begin complying with the minimum reporting requirement specified in paragraph (A) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(3)(iv)	yes	yes	no
3745-36-10	E3	shall	In accordance with paragraphs (F) to (I) of rule 3745-36-08 of the Administrative Code, the industrial user shall retain documentation to support its compliance with the definition of a mid-tier categorical industrial user in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(3)(v)	yes	yes	no
3745-36-10	E3	shall	The industrial user shall maintain these records for a period of three years after the expiration of the individual indirect discharge permit.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(3)(v)	yes	yes	no
3745-36-10	F1	shall	The industrial user shall submit a request to Ohio EPA for a determination of the user's status as a non-significant categorical industrial user which shall include documentation that the industrial user meets all of the criteria of a non-significant categorical industrial user, as defined in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	F1	shall	The industrial user shall submit a request to Ohio EPA for a determination of the user's status as a non-significant categorical industrial user which shall include documentation that the industrial user meets all of the criteria of a non-significant categorical industrial user, as defined in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	F1	shall	This request shall be signed in accordance with paragraph (C) of rule 3745-36-08 of the Administrative Code, and include the certification statement in paragraph (C)(1) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(2)(iii)	yes	yes	no
3745-36-10	F2	shall	The industrial user shall notify Ohio EPA immediately in writing of any changes at the facility causing the user to no longer meet the definition of a non-significant categorical industrial user in rule 3745-36-02 of the Administrative Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	F3	shall	Facilities determined by Ohio EPA to be a non-significant categorical industrial user shall annually submit the following certification statement, signed by an authorized representative, as defined in paragraph (C) of rule 3745-36-08 of the Administrative Code.	6111.03(P), 6111.042	federal required	40 CFR 403.12(q)	yes	yes	no
3745-36-10	F3	shall	Except for the periodic compliance report described in paragraph (A) of rule 3745-36-08 of the Administrative Code, this certification shall be accompanied by any additional reports required by Ohio EPA, if any:	6111.03(P), 6111.042	federal required	40 CFR 403.12(q)	yes	yes	no
3745-36-10	G1	shall	To implement this option, a TOMP shall be submitted to Ohio EPA for review and approval and shall include all of the following information.	6111.03(P), 6111.042	federal required	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-36-10	G1	shall	To implement this option, a TOMP shall be submitted to Ohio EPA for review and approval and shall include all of the following information.	6111.03(P), 6111.042	federal required / general authority	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-36-10	G1	shall	If the requested information is not applicable, an explanation shall be included in the plan.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1a	shall	Organic constituents of trade name products shall be obtained from the supplier.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1cii	shall	Once pollution prevention options are identified, a technical and economic evaluation of viable options shall be conducted to select options, or projects that are technically and economically viable.	6111.03(P), 6111.042	general authority		yes	no	no

3745-36-10	G1cii	shall	A schedule of implementation shall be developed and a measurement system to track the implementation progress of the pollution prevention options shall be developed and revised as necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1cii	shall	A schedule of implementation shall be developed and a measurement system to track the implementation progress of the pollution prevention options shall be developed and revised as necessary.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1d	shall	A detailed description for each waste shall be included with information on how the waste is stored prior to disposal.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1e	shall	These procedures shall include, but are not limited to, the following:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1ei	shall	These practices shall include, but are not limited to, the following:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1eif	shall	The containment system shall be designed and maintained to not allow leakage.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1eii	shall	Visual inspections shall be conducted at least once per week.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1eiv	shall	This plan shall include all floor drains, dikes, and containment areas in the storage facility.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1f	shall	If a spill or leak containing a TTO enters the process wastewaters and discharges to a POTW or surface waters, the POTW and Ohio EPA shall be promptly notified by the industrial user within twenty-four hours of discovery.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.17(c)(2)	yes	yes	no
3745-36-10	G1f	shall	Information regarding the facility, chemicals spilled and remedial actions shall be provided in the notification.	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.17(c)(2)	yes	yes	no
3745-36-10	G1f	shall	The spill or leak notification plan shall also include, at a minimum:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G1fiii	shall	A list of agencies to be contacted during an emergency and their telephone numbers shall also be posted where organics are used and stored.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2	shall	The facility's effluent shall be sampled and analyzed for all toxic organic compounds, as indicated on the list included in the appropriate categorical standard.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2a	shall	Samples shall be collected and analyzed in accordance with 40 C.F.R. 136, with appropriate detection levels.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2b	shall	The reporting form from the laboratory analyzing the samples shall be included in the TOMP.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2c	shall	The steps in the regulated process in which toxic organics are used shall be described.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2d	shall	The source where toxic organics could be introduced into the wastestream besides those referenced in paragraph (G)(2)(c) of this rule shall be described.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2e	shall	A flow schematic showing all of the sources and pathways where toxic organics could enter the wastestream shall be provided.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2f	shall	The approximate quantities of each toxic organic chemical used at each step in the regulated process shall be listed.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G2g	shall	The evaluation shall state if the TTOs are formed as reaction products or by-products or from raw materials, impurities, equipment corrosion or other sources.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G3	shall	In order to qualify for the alternative in paragraph (G) of this rule, the following criteria shall be met:	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G3a	shall	The baseline analysis shall show compliance with the appropriate TTO standards.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G3b	shall	An acceptable TOMP shall be submitted to Ohio EPA.	6111.03(P), 6111.042	federal required	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-36-10	G3d	shall	The following certification statement shall be signed by an authorized representative of the industrial user, as defined in paragraph (C)(2) of rule 3745-36-08 of the Administrative Code and submitted with the TOMP and each subsequent periodic compliance report:	6111.03(P), 6111.042	federal required	40 CFR 413.03, 433.12, 469.13	yes	yes	no
3745-36-10	G4	shall	Ohio EPA and the POTW shall be notified if any production process is modified or if conditions change that affect the use or storage of toxic organics.	6111.03(P), 6111.042	federal required	40 CFR 403.12(j)	yes	yes	no
3745-36-10	G5	shall	To continue implementation of the alternate TTO monitoring, the industrial user shall update the TOMP at least every permit cycle and at intervals no longer than five years	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G5	shall	In addition, within twelve months of requesting re-evaluation, the industrial user shall conduct the initial sampling requirements described in paragraph (G)(2) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G5	shall	The industrial user shall submit the sampling results and updated TOMP to Ohio EPA for review and approval.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G5	shall	A copy of this submittal shall also be sent to the POTW.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G7	shall	TTO monitoring shall resume upon the end or revocation of certification.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	H1	shall	Categorical pretreatment standards shall apply to an industrial user unless an enforceable alternative limit to the standard is applicable to the industrial user under any of the following regulations:	6111.03(P), 6111.042	general authority/ federal required	40 CFR 403.6, 403.7, 403.13, 403.15	yes	yes	no

3745-36-10	H2	shall	In order for the alternative limit referenced in paragraph (H)(1) of this rule to be considered enforceable, compliance with the alternative limit shall be required by the individual indirect discharge permit issued to the industrial user by the director under section 6111.03 of the Revised Code.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	H3	shall	There shall be no right or procedure implied under this chapter for an industrial user, or any other person to seek an alternative limit to a categorical pretreatment standard other than through the procedures and within the requirements set forth in paragraphs (H)(1) and (H)(2) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	H4	shall	Categorical industrial users shall comply with the limits under rule 3745-36-04 of the Administrative Code, and with any more stringent pretreatment standards, including local limits.	6111.03(P), 6111.042	federal required	40 CFR 403.3(l), 403.6	yes	yes	no
3745-36-10	D3	require	Upon Ohio EPA's approval of the monitoring waiver and implementation of the industrial user's individual indirect discharge permit, the industrial user shall certify on each periodic compliance monitoring report required by paragraph (A) of rule 3745-36-08 of the Administrative Code with the following statement:	6111.03(P), 6111.042	federal required / general authority	40 CFR 403.12(e)(2)(v)	yes	yes	no
3745-36-10	E	require	For a mid-tier categorical industrial user as defined in rule 3745-36-02 of the Administrative Code, Ohio EPA may reduce the frequency for the periodic compliance reports described in paragraph (A) of rule 3745-36-08 of the Administrative Code to no less than once per year, unless required more frequently in the pretreatment standard or by the director.	6111.03(P), 6111.042	federal required	40 CFR 403.12(e)(3)	yes	yes	no
3745-36-10	F3	require	Except for the periodic compliance report described in paragraph (A) of rule 3745-36-08 of the Administrative Code, this certification shall be accompanied by any additional reports required by Ohio EPA, if any:	6111.03(P), 6111.042	federal required	40 CFR 403.12(q)	yes	yes	no
3745-36-10	G2g	require	An evaluation of any regulated TTO found in the effluent other than those in the TTO inventory list required in paragraph (G)(1)(a) of this rule.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	G4	require	Ohio EPA may require that additional sampling be performed.	6111.03(P), 6111.042	general authority		yes	no	no
3745-36-10	H2	require	In order for the alternative limit referenced in paragraph (H)(1) of this rule to be considered enforceable, compliance with the alternative limit shall be required by the individual indirect discharge permit issued to the industrial user by the director under section 6111.03 of the Revised Code.	6111.03(P), 6111.042	general authority		yes	no	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-38-01	A	shall	Except as otherwise provided in this rule, the definitions in sections 6111.01 and 6111.13 of the Revised Code shall have the same meaning in this rule as in that section.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-01	O	require	"Ohio EPA" means the Ohio environmental protection agency or its director as the context or other laws or regulations may require.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	A1	shall	As a minimum, this chapter shall be administered consistent with the act and regulations adopted by the administrator, including 40 CFR 122, 123.44 and 124.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	A2	shall	Each point source shall be regulated by an individual or general NPDES permit, as determined by the director.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B1	shall	The general NPDES permit shall be written to cover a category of discharges by persons conducting similar activities within a geographic area, except those covered by an individual NPDES permit.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B1	shall	The area shall correspond to existing geographic or political boundaries.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B3	shall	If one source within a category or subcategory is subject to a water quality based limit, then all the sources within that category or subcategory shall be subject to the same limit.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4	shall	For general permits issued under this chapter for small MS4s, the director shall establish the terms and conditions necessary to meet the requirements of paragraph (C) of rule 3745-39-03 of the Administrative Code by using one of the following permitting approaches as indicated in the permit or fact sheet:	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4bi	shall	The general permit shall require that any small MS4 operator seeking authorization to discharge under the general permit submit a notice of intent (NOI) consistent with paragraph (B)(2)(a) of rule 3745-39-03 of the Administrative Code.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4bii	shall	The director shall review the NOI submitted by the small MS4 operator to determine whether the information in the NOI is complete and to establish the additional terms and conditions necessary to meet the requirements in paragraph (C) of rule 3745-39-03 of the Administrative Code.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	B4bii	shall	. If the director makes a draft decision to authorize the small MS4 to discharge under the general permit, the director shall give public notice of, and opportunity to comment and request a public hearing on the small MS4's draft authorization and the NOI, the draft additional terms and conditions, and the basis for these additional requirements.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	B4bii	shall	The public notice, the process for submitting public comments and hearing requests, and the hearing process if a request for a hearing is granted, shall follow the procedures applicable to draft permits set forth in Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4bii	shall	. The director shall respond to significant comments received during the comment period as provided in rule 3745-49-05 of the Administrative Code.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	B4biii	shall	The director shall notify the permittee and inform the public of the decision to authorize the MS4 to discharge under the general permit and of the final additional terms and conditions specific to the MS4.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	D1	shall	The person shall submit an application with reasons supporting the request.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E1	shall	Each person seeking initial coverage under a general NPDES permit shall submit a notice of intent in accordance with the deadline specified in the applicable general NPDES permit, as follows:	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E1a	shall not	For storm water discharges associated with construction activity, that deadline shall not exceed ninety days prior to the commencement of ground disturbing activities.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E1b	shall not	For all other discharges, that deadline shall not exceed one hundred eighty days prior to the commencement of a discharge.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E3	shall	Notices of intent shall be made only on forms approved by Ohio EPA and shall be considered, for the purpose of fee collection, as applications for general NPDES permits.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E3	shall	Notices of intent shall be made only on forms approved by Ohio EPA and shall be considered, for the purpose of fee collection, as applications for general NPDES permits.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E3	shall	Such notice of intent shall contain the following:	6111.03(G), 6111.035	state general authority		yes	no	no

3745-38-02	E3d	shall	The facility project contact person and project name shall also be included on the map.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E3e	shall	The map shall depict the affected area and location of treatment ponds with outfalls labeled.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E3e	shall	The map shall indicate whether the treatment ponds are existing or proposed.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E4	shall	Notices of intent submitted to the director pursuant to this chapter shall be signed as specified in paragraph (F) of rule 3745-33-03 of the Administrative Code.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E5	shall	The director shall notify each person submitting a notice of intent in writing as to whether their discharge is authorized pursuant to the general NPDES permit.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	E5	shall	The director shall maintain a list of each person authorized to discharge under each general NPDES permit and make the list available on Ohio EPA's website.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	F floating	shall	The director shall provide in the public notice of the general permit the reasons for not requiring a notice of intent.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	H	shall	Upon revocation of the individual NPDES permit, the general NPDES permit shall apply to the source.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	I2	shall not	The director shall not issue a general NPDES permit or renewal if the regional administrator objects in writing to the issuance or renewal of the general NPDES permit in accordance with section 402 of the act.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	I3	shall	A general NPDES permit shall be effective for a fixed term not to exceed five years.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	I4	shall	The director shall prepare for each general NPDES permit a fact sheet that sets forth the principal facts and significant factual, legal, methodological, and policy questions considered in preparing the general NPDES permit.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	K1	shall	Ohio EPA shall be notified on a form approved by the director at least thirty days prior, unless a different timeframe is specified in the general permit, to any proposed transfer of coverage under a general NPDES permit.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	K1	shall	The transferor and transferee shall jointly inform Ohio EPA of the transition of responsibilities regarding general NPDES permit coverage, including the specific date coverage responsibility and liability are to be transferred between them.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	L	shall	General NPDES permit processing shall be conducted in accordance with provisions in the rules of procedure under Chapters 3745-47 and 3745-49 of the Administrative Code except as provided in paragraph (J)(3) of this rule or superseded by division (B) of section 6111.035 of the Revised Code.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	M2	shall	If the director finds the revocation of a general NPDES permit necessary pursuant to paragraph (M)(1) of this rule, the director shall send notice of the proposed revocation to each permittee covered by the general NPDES permit to be revoked.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	M3	shall	Upon receipt of written notification from the director regarding the issuance of a proposed revocation of a general NPDES permit, each person that was authorized by that general NPDES permit shall submit an application for an individual NPDES permit or a notice of intent for an alternative general NPDES permit not later than ninety days after receipt of such written notification.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	N	shall	When a person determines in accordance with requirements contained within the general NPDES permit under which that person is covered that said coverage is no longer required, that person shall submit a notice of termination (NOT) in accordance with the applicable provisions of the general NPDES permit.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B2diii	require	Require the same effluent limitations, operating conditions, or standards for sewage sludge use or disposal.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B2div	require	Require the same or similar monitoring.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4a	require	The director includes all required permit terms and conditions in the general permit.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4b	require	The director includes required permit terms and conditions in the general permit applicable to all eligible small MS4s and, during the process of authorizing small MS4s to discharge, establishes additional terms and conditions not included in the general permit to satisfy one or more of the permit requirements in paragraph (C) of rule 3745-39-03 of the Administrative Code for individual small MS4 operators.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	B4bi	require	The general permit shall require that any small MS4 operator seeking authorization to discharge under the general permit submit a notice of intent (NOI) consistent with paragraph (B)(2)(a) of rule 3745-39-03 of the Administrative Code.	6111.03(G), 6111.035	state general authority		yes	no	yes
3745-38-02	B4bii	require	The director may require the small MS4 operator to submit additional information	6111.03(G), 6111.035	state general authority		yes	no	no

3745-38-02	C	require	The director may require any person who has submitted a notice of intent to obtain coverage under a general NPDES permit, or who otherwise has obtained coverage under a general NPDES permit, to apply for and obtain an individual NPDES permit or alternative general NPDES permit coverage.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	C	require	Cases where an individual NPDES permit or alternative general NPDES permit coverage may be required include any of the following:	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E2a	require	To renew coverage under a general NPDES permit, a renewal notice of intent and associated fees are required, as follows:	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E2aii	require	A notice of intent renewal fee is not required for persons who obtained coverage under the previous construction storm water general permit and such coverage was obtained less than or equal to one year from the expiration date stated on the expired construction storm water general permit.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	E3g	require	When required by a general permit, quantitative data describing the concentration of pollutants in the discharge and volume to be discharged.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	I1c	require	Adequate monitoring to obtain required pollutant discharge information is provided.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	J3bii	require	Require more frequent monitoring or reporting by the permittee.	6111.03(G), 6111.035	state general authority		yes	no	no
3745-38-02	N	require	When a person determines in accordance with requirements contained within the general NPDES permit under which that person is covered that said coverage is no longer required, that person shall submit a notice of termination (NOT) in accordance with the applicable provisions of the general NPDES permit.	6111.03(G), 6111.035	state general authority		yes	no	no

Rules 3745-39-02, -03, -04 are exempt.

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-39-01	A	shall	Except where otherwise provided, this chapter shall be administered in accordance with provisions in Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03	general authority		yes	no	yes
3745-39-01	B	shall	Except as otherwise provided in this chapter, all terms used in this chapter shall have the same meaning as in section 6111.01 of the Revised Code.	6111.03	general authority		yes	no	no

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-40-01	F10	shall	Frequently flooded and the months when flooding is expected shall be determined by consulting table 1 of appendix A to rule 901:10-2-14 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-01	F11	shall	"Frozen ground" means ground that is impenetrable because of frozen soil moisture. Generally, frozen ground shall meet all of the following criteria:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-01	I6	shall	Injected biosolids shall remain four inches or greater below the ground and shall not be forced to the surface of the ground.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-01	I6	shall not	Injected biosolids shall remain four inches or greater below the ground and shall not be forced to the surface of the ground.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-01	N1	shall	In calculating the nitrogen agronomic rate, the permittee shall subtract both of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-01	B8	may not	[Comment: Biosolids management plans are generally used for special scenarios that may not be covered by an NPDES permit (e.g. the use of biosolids for deep-row hybrid poplar tree farming).]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	B2c	shall	The letter requesting authorization shall include all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C2a	shall	The treatment, storage, transfer, or disposal of sewage sludge shall be in compliance with this chapter and the conditions of an NPDES permit or a biosolids management plan.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C2b	shall	In accordance with rules adopted under section 3734.03 of the Revised Code and licensed under section 3734.05 of the Revised Code, sewage sludge that is disposed of in a landfill shall be in compliance with the requirements of this chapter, and rules adopted under Chapter 3734. of the Revised Code.	6111.03 (R), 6111.042	state required 6111.03(J)(1)(C)		yes	yes	no
3745-40-02	C2d	shall	The treatment, storage, transfer or disposal of sewage sludge shall be done in a manner as to minimize odors.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	no
3745-40-02	C3a	shall	Prior to the beneficial use of biosolids, influent wastewater and septage, or sewage sludge at a treatment works shall be treated by a process such as physical screening or another method to significantly remove foreign/inert matter.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3aiiia	shall	Samples shall be prepared in accordance with U.S. EPA's "160.3 Methods for Chemical Analysis of Water and Wastes."	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3aiiia	shall	Foreign/inert matter content shall be determined by passing a dried, weighed sample of not less than one hundred grams of biosolids through a U.S. standard "number 5 sieve" (four millimeter).	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3aiiia	shall	The material remaining on the screen shall be inspected and the foreign/inert matter shall be separated and weighed.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3aiiia	shall	The material remaining on the screen shall be inspected and the foreign/inert matter shall be separated and weighed.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3aiiia	shall	The weight of the foreign/inert matter divided by the total weight of the biosolids sample and multiplied by one hundred shall be the per cent dry weight of the foreign matter content.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3aiiia	shall	The minimum frequency of monitoring for foreign/inert matter shall be in accordance with table B-1 of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C3b	shall	The treatment, storage, transfer, disposal, or beneficial use of biosolids shall be in compliance with this chapter and the conditions of an NPDES permit or a biosolids management plan.	6111.03 (R), 6111.042	general authority and federally required	40 CFR 503.3	yes	yes	no
3745-40-02	C3c	shall	Biosolids that are disposed of in a landfill, in accordance with rules adopted under section 3734.03 of the Revised Code and licensed under section 3734.05 of the Revised Code shall be in compliance with the requirements of this chapter, and shall be in compliance with the rules adopted under Chapter 3734. of the Revised Code.	6111.03 (R), 6111.042	State required 6111.03 (J)(1)(c)		yes	yes	no
3745-40-02	C3c	shall	Biosolids that are disposed of in a landfill, in accordance with rules adopted under section 3734.03 of the Revised Code and licensed under section 3734.05 of the Revised Code shall be in compliance with the requirements of this chapter, and shall be in compliance with the rules adopted under Chapter 3734. of the Revised Code.	6111.03 (R), 6111.042	State required 6111.03 (J)(1)(c)		yes	yes	no
3745-40-02	C3e	shall	The treatment, storage, transfer, disposal, or beneficial use of biosolids shall be done in a manner as to minimize odors.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	no
3745-40-02	C4	shall	Non-traditional feedstocks (NTFs) shall be approved by the director prior to use in anaerobic digestion.	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-02	C4a	shall	A request for approval to accept an NTF shall be submitted on forms approved by Ohio EPA and include, at a minimum, the following, unless waived or modified in writing by Ohio EPA:	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-02	C4aiii	shall	The analytical data shall be sufficient to characterize representative conditions of the generation of the NTF. Ohio EPA may request additional analytical data after an initial review of the request for approval.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C4aviia	shall	A description of the operational conditions used during the study that shall simulate typical digester conditions, including mixing the NTF with other feedstocks expected to be present to determine how feedstocks may interact.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C4b	shall	An indication of the deficiency shall accompany the application returned.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C4c	shall not	The director or an authorized representative shall not approve an NTF request submitted in accordance with this rule unless all of the following are determined:	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-02	C4cii	shall	Methane production shall be maintained or improved in the anaerobic digester with the addition of NTF.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	D5a	shall	[Comment: Sewage sludge shall be analyzed in accordance with United States environmental protection agency method 8082A "PCBs by Gas Chromatography," for purposes of this exclusion.]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	D7a	shall	In this case, the treatment works shall be installed in accordance with Chapter 3745-42 of the Administrative Code and operated in compliance with this chapter and the conditions of an NPDES permit.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	E2	shall not	Sewage sludge or class B biosolids shall not be placed on any location that is not, as applicable, authorized for beneficial use, facility storage, field storage or a regional storage facility.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	B2a	require	The authorization to waive a requirement will not result in a less stringent requirement than required in 40 C.F.R. 503.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C1	require	In accordance with Chapter 3745-33 of the Administrative Code, an NPDES permit is required prior to the discharge of any pollutant to surface waters of the state.	6111.03 (R), 6111.042	33 USC 1342 (CWA section 402)		yes	yes	no
3745-40-02	C4b	require	A request for approval to accept an NTF that fails to provide Ohio EPA with required information may be considered defective.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	C4diii	require	Periodic reporting of the volume of NTF accepted and the results of any required additional monitoring.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	E1	prohibit	The surface disposal of sewage sludge or biosolids is prohibited.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-02	E3	prohibit	The distribution of biosolids that are not exceptional quality, as described in rule 3745-40-04 of the Administrative Code, is prohibited.	6111.03 (R), 6111.042	federal required	40 CFR 503.10 E, F,	yes	yes	no
3745-40-03	A1	shall	Except as provided in paragraph (C) of this rule, the treatment, storage, transfer, or disposal of sewage sludge or biosolids shall be in compliance with this chapter and, as applicable, the conditions of an NPDES permit.	6111.03 (R), 6111.042	general authority and federally required	40 CFR 503.3	yes	no	no
3745-40-03	A2	shall	Except as provided in paragraph (C) of this rule, the beneficial use of biosolids shall be in compliance with this chapter and, as applicable, the conditions of an NPDES permit.	6111.03 (R), 6111.042	general authority and federally required	40 CFR 503.3	yes	no	no
3745-40-03	B	shall	The beneficial use at a land reclamation site shall conform to both of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	C4	shall	A biosolids management plan shall include all of the following	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	C5	shall	An application for renewal of a biosolids management plan shall be submitted one hundred eighty days prior to the expiration date of the plan.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	A3	require	The director may require an NPDES permit or biosolids management plan for the beneficial use of exceptional quality biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	A4ev	require	Require the filing of periodic reports on the amounts, composition and quality of the sewage sludge or biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	C1	require	If an NPDES permit is not required, the director may allow the treatment, storage, transfer or disposal of sewage sludge or biosolids in accordance with an approved biosolids management plan.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	C2	require	If an NPDES permit is not required, the director may allow the beneficial use of biosolids in accordance with an approved biosolids management plan.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-03	C3	require	The director may require any person who is not a permittee to obtain a biosolids management plan prior to the beneficial use of biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-04	A1	shall	A biosolids classification shall be determined in accordance with table A-1 of this rule.	6111.03 (R), 6111.042	federal required	40 CFR 503.15	yes	yes	no
3745-40-04	A1a	shall	For exceptional quality biosolids, the pathogen reduction alternatives in accordance with table A-1 of this rule shall be met either prior to or at the same time as meeting the vector attraction reduction requirements, except the vector attraction reduction requirements in paragraphs (C)(6) to (C)(8) of this rule.	6111.03 (R), 6111.042	federal required	40 CFR 503.32 (a)(2)	yes	no	no

3745-40-04	A2	shall	Records shall be kept in accordance with this rule and rule 3745-40-09 of the Administrative Code and maintained for as minimum of five years.	6111.03 (R), 6111.042	federal required	40 CFR 503.17	yes	yes	no
3745-40-04	B	shall	Class B biosolids: For class B biosolids, pathogen reduction shall be accomplished in accordance with an alternative found in paragraphs (B)(l) to (B)(16) of this rule.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B	shall	Exceptional quality biosolids: For exceptional quality biosolids, pathogen reduction shall be accomplished when the density of fecal coliform in the sewage sludge is less than one thousand.....	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B	shall	The pathogen reduction alternative shall be met either prior to, or at the same time as meeting the vector attraction reduction requirement in paragraphs (C)(1) to (C)(8) of this rule.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B	shall	. To meet the fecal coliform or Salmonella sp. bacteria requirement, the sampling results shall be representative of the biosolids leaving the treatment works.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B	shall	At a minimum, seven grab samples of the biosolids shall be taken and analyzed at least once per reporting period and all results shall meet the limits listed in this paragraph for the biosolids to be considered exceptional quality.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B	shall	At a minimum, seven grab samples of the biosolids shall be taken and analyzed at least once per reporting period and all results shall meet the limits listed in this paragraph for the biosolids to be considered exceptional quality.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B1ai	shall	At a minimum, seven grab samples of the sewage sludge that are proposed for authorized beneficial use shall be collected.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B1ai	shall	The samples of the sewage sludge shall be taken at various locations, so as to be representative.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B1aii	shall	The geometric mean of the density of fecal coliform in the sewage sludge samples shall be either of the following:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B1aii	shall	[Comment: Seven samples shall be taken over a two-week period or in accordance with the standard operating procedure developed under paragraph (C) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B1b	shall	The permittee shall complete monitoring in accordance with paragraphs (B)(1)(a) to (B)(1)(a)(ii) of rule 3745-40-04 of the Administrative Code and at the frequencies specified in paragraph (B) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	B1c	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B2ai	shall	The sewage sludge shall be agitated with air or oxygen to maintain aerobic conditions for a specific mean cell residence time at a specific temperature.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B2aii	shall	The values for the mean cell residence time and temperature shall be between forty days at twenty degrees Celsius (sixty-eight degrees Fahrenheit) and sixty days at fifteen degrees Celsius (fifty-nine degrees Fahrenheit), where a minimum temperature of fifteen degrees Celsius is maintained at all times.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B2aii	shall	To calculate the number of days of the mean cell residence time that is required for temperatures between fifteen and twenty degrees Celsius (between fifty-nine and sixty-eight degrees Fahrenheit), the following equation shall be used	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B2b	shall	Both of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B3aiii	shall	The sewage sludge shall be exposed to the atmosphere for at least sixty consecutive days within the ninety-day period.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B3b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B4ai	shall	Sewage sludge or biosolids shall be treated in the absence of air for a specific mean cell residence time at a specific temperature.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B4ai	shall	Bulking agents, additives, or feedstocks shall be introduced prior to, or during the anaerobic digestion process.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B4ai	shall	An alternative feedstock shall be authorized by the director or an authorized representative in accordance with rule 3745-40-02 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B4aii	shall	The values for the mean cell residence time and the temperature shall be between fifteen days at thirty-five to fifty-five degrees Celsius (between ninety-five and one hundred thirty-one degrees Fahrenheit) and sixty days at twenty degrees Celsius (sixty-eight degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B4aii	shall	A minimum temperature of twenty degrees Celsius (sixty-eight degrees Fahrenheit) shall be maintained at all times.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	B4b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5ai	shall not	Such treatment works shall not be subject to the requirements in Chapter 3745-560 of the Administrative Code if all of the following conditions are met:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiiaiii	shall	The temperature is measured at multiple points and at a range of depths throughout the composting medium and shall be recorded at the beginning of the compost process when the minimum temperature has been reached, at least once daily, at least once per hour during the four-hour period when the composting medium is above fifty-five degrees Celsius (one hundred thirty-one degrees Fahrenheit) and at the end of the five-day period.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiibiii	shall	One foot or greater of an insulation material shall be placed over the surface of the aerated static pile to ensure that the entire composting medium achieves forty degrees Celsius (one hundred four degrees Fahrenheit) or higher.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiibiv	shall	The temperature is measured at multiple points and at a range of depths throughout the composting medium, including the toes of the pile, and shall be recorded at the beginning of the composting process, at least once daily, at least once per hour during the four-hour period that the composting medium is above fifty-five degrees Celsius (one hundred thirty-one degrees Fahrenheit) and at the end of the five-day period.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiici	shall	The temperature of the windrow of composting medium shall be maintained at forty degrees Celsius (one hundred four degrees Fahrenheit) or higher for a minimum of five consecutive days, except during active turning or mixing of the windrow.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiiciii	shall	The windrow of composting medium shall be turned or mixed during the five-day period so that the entire compost medium has maintained a temperature of forty degrees Celsius (one hundred four degrees Fahrenheit) for a minimum of five days.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiiciii	shall	The turning or mixing shall be done by a machine that moves the core of the composting material to the outside of the windrow and moves the outside compost material into the core of the windrow.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiiciv	shall	The temperature of the windrow shall be at or above forty degrees Celsius (one hundred four degrees Fahrenheit) within twenty-four hours after the turning or mixing of the windrow is complete.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiicv	shall	The temperature is measured at multiple points and at a range of depths throughout the composting medium, including the toes of the pile, and shall be recorded at the beginning of the composting process, at least once daily, at least once per hour during the four-hour period that the composting medium is above fifty-five degrees Celsius (one hundred thirty-one degrees Fahrenheit) and at the end of the five-day period.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	B5bi	shall	A description of the composting method, including where the temperature shall be measured.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B6aii	shall	The pH shall be measured at several locations to ensure that the pH is raised throughout the sewage sludge.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B6b	shall	Records shall be maintained and submitted to the director or an authorized representative with the annual report that include all of the following:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B6biii comment	shall	If this is not possible, and odor problems develop, alternate management practices in the field, including injection or incorporation or top dressing the beneficially used biosolids with additional lime, shall be performed.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)	40 CFR 503.32	yes	yes	no
3745-40-04	B7a	shall	To achieve alternative P-7, sewage sludge that will be treated to generate biosolids for beneficial use shall be treated in a process that is equivalent to a process to significantly reduce pathogens, as determined by the director.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B7b	shall	The records of the operating parameters or pathogen levels, as necessary to demonstrate the process equivalent to a process to significantly reduce pathogens, shall be maintained and submitted to the director or an authorized representative with the annual report.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8ai	shall	When the per cent solids of the sewage sludge is seven per cent or higher, the temperature of the sewage sludge shall be fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, the time period shall be twenty minutes or longer and the temperature and time period shall be determined using equation number one, except when small particles of sewage sludge are heated by either warmed gases or an immiscible liquid.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8ai	shall	When the per cent solids of the sewage sludge is seven per cent or higher, the temperature of the sewage sludge shall be fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, the time period shall be twenty minutes or longer and the temperature and time period shall be determined using equation number one, except when small particles of sewage sludge are heated by either warmed gases or an immiscible liquid.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8ai	shall	When the per cent solids of the sewage sludge is seven per cent or higher, the temperature of the sewage sludge shall be fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, the time period shall be twenty minutes or longer and the temperature and time period shall be determined using equation number one, except when small particles of sewage sludge are heated by either warmed gases or an immiscible liquid.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8aii	shall	When the per cent solids of the sewage sludge is seven per cent or higher and small particles of sewage sludge are heated by either warmed gases or an immiscible liquid, the temperature of the sewage sludge shall be fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, the time period shall be fifteen seconds or longer and the temperature and time period shall be determined using equation number one.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8aii	shall	When the per cent solids of the sewage sludge is seven per cent or higher and small particles of sewage sludge are heated by either warmed gases or an immiscible liquid, the temperature of the sewage sludge shall be fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, the time period shall be fifteen seconds or longer and the temperature and time period shall be determined using equation number one.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	B8aii	shall	When the per cent solids of the sewage sludge is seven per cent or higher and small particles of sewage sludge are heated by either warmed gases or an immiscible liquid, the temperature of the sewage sludge shall be fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, the time period shall be fifteen seconds or longer and the temperature and time period shall be determined using equation number one.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8aiii	shall	When the per cent solids of the sewage sludge is less than seven per cent and the time period is at least fifteen seconds, but less than thirty minutes, the temperature and time period shall be determined using equation number one.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8aiv	shall	When the per cent solids of the sewage sludge is less than seven per cent, the temperature of the sewage sludge is fifty degrees Celsius (one hundred twenty-two degrees Fahrenheit) or higher, and the time period is thirty minutes or longer, the temperature and time period shall be determined using equation number two.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B8b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B9aii	shall	The pH shall be measured at several locations to ensure that the pH is raised throughout the sewage sludge.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B9b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B10aiiai	shall	The temperature is measured at multiple points and at a range of depths throughout the composting medium and shall be recorded, at a minimum, at the beginning of the composting process, at twenty-four hours, at forty-eight hours and at seventy-two hours.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B10aiicv	shall	The temperature shall be measured in the core of the windrow at various locations along the length of the windrow.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B10aiicv	shall	Temperatures shall be recorded at the same time daily, at a minimum, throughout the fifteen-day period.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B10b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B11b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B12b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	B13a	shall	To achieve alternative P-13, the sewage sludge shall be irradiated with beta rays from an accelerator at dosages of at least one megarad at room temperature (approximately twenty degrees Celsius or sixty-eight degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B13b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B14a	shall	To achieve alternative P-14, the sewage sludge shall be irradiated with gamma rays from certain isotopes, such as ⁶⁰ Co and ¹³⁷ Cs, at dosages of at least one megarad at room temperature (approximately twenty degrees Celsius or sixty-eight degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B14b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B15a	shall	To achieve alternative P-15, the temperature of the sewage sludge shall be maintained at seventy degrees Celsius (one hundred fifty-eight degrees Fahrenheit) or higher for thirty minutes or longer.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B15a	shall	A device shall be used to monitor the temperatures to ensure that the temperature of the sewage sludge does not fall below seventy degrees Celsius (one hundred fifty-eight degrees Fahrenheit) during the thirty-minute period.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B15b	shall	Both of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B16a	shall	To achieve alternative P-16, sewage sludge that will be treated to generate biosolids for beneficial use shall be treated in a manner that is equivalent to a process to further reduce pathogens, as determined by the director.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B16b	shall	Both of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C	shall	In addition to the applicable pathogen reduction requirements and the pollutant concentration limits for metals in this rule, a vector attraction reduction option in accordance with paragraphs (C)(1) to (C)(10) of this rule shall be met in order to achieve class B biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C	shall	Exceptional quality biosolids. In addition to the applicable pathogen reduction requirements and the pollutant concentration limits for metals in this rule, a vector attraction reduction option in accordance with paragraphs (C)(1) to (C)(8) of this rule shall be met after or at the same time as meeting pathogen reduction requirements in paragraphs (B)(8) to (B)(16) of this rule to achieve exceptional quality biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C1a	shall	To achieve option VAR-1, the mass of volatile solids in the sewage sludge shall be reduced by a minimum of thirty-eight per cent.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	C1b	shall	Both of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C2b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C3b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4a	shall	To achieve option VAR-4, the specific oxygen uptake rate for sewage sludge that is treated in an aerobic process at temperatures between ten and thirty degrees Celsius (between fifty and eighty-six degrees Fahrenheit), shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of twenty degrees Celsius (sixty-eight degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4a	shall	The temperature of the sewage sludge to be tested shall be maintained at the same temperature as it was in the digester.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4b	shall	SOUR testing shall be conducted in accordance with the standard operating procedure developed under paragraph (C) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4b	shall	The standard operating procedure for SOUR testing shall take into account the variability in flow rates and performance of the digester.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4b	shall	. SOUR tests shall be run routinely so that sufficient data are available to indicate average performance.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4b	shall	. To compensate for variability the arithmetic mean of a minimum of seven successive SOUR tests taken over a two-week period shall give a SOUR of less than or equal to 1.5 milligrams of oxygen per hour per gram of total solids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4b	shall	. At a minimum, SOUR testing shall be completed at the frequency required by table B-1 of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C4c	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C5a	shall	. Sewage sludge shall be treated in an aerobic process for fourteen days or longer.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	C5a	shall	During that time, the temperature of the sewage sludge shall be higher than forty degrees Celsius (one hundred four degrees Fahrenheit) and the average temperature of the sewage sludge shall be higher than forty-five degrees Celsius (one hundred thirteen degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C5a	shall	During that time, the temperature of the sewage sludge shall be higher than forty degrees Celsius (one hundred four degrees Fahrenheit) and the average temperature of the sewage sludge shall be higher than forty-five degrees Celsius (one hundred thirteen degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C5b	shall	Both of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C6a	shall	The pH of sewage sludge shall be raised to twelve or higher by lime addition and, without the addition of more lime, shall remain at twelve or higher for two hours and then remain at 11.5 or higher for an additional twenty-two hours.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C6a	shall	The pH of sewage sludge shall be raised to twelve or higher by lime addition and, without the addition of more lime, shall remain at twelve or higher for two hours and then remain at 11.5 or higher for an additional twenty-two hours.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C6b	shall	All of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C7a	shall	The per cent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than seventy-five per cent based on the per cent solids and total solids prior to mixing with other materials.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C7b	shall	Both of the following records shall be maintained and submitted to the director or an authorized representative with the annual report:	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C8a	shall	The per cent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than ninety per cent based on the per cent solids and total solids prior to mixing with other materials until the biosolids are beneficially used.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C8a	shall	Measures shall be taken to prevent odors and proper storage shall be provided to avoid a decrease in per cent solids.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)	40 CFR 503.32	yes	yes	no
3745-40-04	C8a	shall	Measures shall be taken to prevent odors and proper storage shall be provided to avoid a decrease in per cent solids.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)	40 CFR 503.32	yes	yes	no
3745-40-04	C8b	shall	The results of the per cent solids tests on a dry weight basis shall be maintained and submitted to the director or an authorized representative with the annual report.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-04	C9a	shall	. Biosolids shall be injected below the surface of the authorized beneficial use site, where no significant amount of biosolids shall be present on the surface of the authorized beneficial use site within one hour after the sewage sludge is injected.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C9a	shall	. Biosolids shall be injected below the surface of the authorized beneficial use site, where no significant amount of biosolids shall be present on the surface of the authorized beneficial use site within one hour after the sewage sludge is injected.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C9b	shall	The certification statement, as required by rule 3745-40-09 of the Administrative Code, from the beneficial user shall be maintained and submitted to the director or an authorized representative with the annual report.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C10a	shall	Biosolids shall be incorporated into the soil within six hours of delivery to the authorized beneficial use site, unless otherwise specified by the director.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	C10b	shall	The certification statement from the beneficial user shall be maintained and submitted to the director or an authorized representative with the annual report.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	D1	shall	No person shall beneficially use biosolids if any monitoring result indicates that a pollutant concentration exceeds the pollutant ceiling concentration listed in table D-1 of this rule.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D2	shall	If a monitoring result indicates that a pollutant exceeds the pollutant ceiling concentrations listed in table D-1 of this rule, a permittee shall either dispose of the sewage sludge within a landfill or return the sewage sludge to the initial stage of the sewage sludge treatment train.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D2	shall	. If the permittee returns the sewage sludge to the sewage sludge treatment train, monitoring shall be repeated and the results must indicate that pollutants do not exceed the pollutant ceiling concentrations listed in table D-1 of this rule before biosolids are removed from the treatment works for beneficial use.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D3	shall	No person shall beneficially use biosolids at an authorized beneficial use site subject to the cumulative pollutant loading rates established in table D-2 of this rule if any of the cumulative pollutant loading rates in table D-2 of this rule have been reached at the authorized beneficial use site.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D4	shall	The pollutant ceiling concentrations, cumulative pollutant loading rates, and pollutant reporting period average concentrations for biosolids shall, as applicable, not exceed the concentrations listed in table D-1, table D-2 and table D-3 of this rule or as required by 40 C.F.R. part 503.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D5	shall	Before class B biosolids subject to the cumulative pollutant loading rates in this rule are applied at an authorized beneficial use site in Ohio, the person who proposes to beneficially use the class B biosolids shall contact the Ohio environmental protection agency division of surface water to determine whether class B biosolids subject to the cumulative pollutant loading rates in this rule have been beneficially used at the authorized beneficial use site since July 20, 1993.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no

3745-40-04	D5b	shall	If class B biosolids subject to the cumulative pollutant loading rates have been beneficially used at the authorized beneficial use site since July 20, 1993, and the cumulative amount of each pollutant beneficially used at the authorized beneficial use site since that date is known, the cumulative amount of each pollutant applied at the authorized beneficial use site shall be used to determine the additional amount of each pollutant that can be applied at the authorized beneficial use site in accordance with this chapter.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D5c	shall not	If class B biosolids subject to the cumulative pollutant loading rates have been beneficially used at the authorized beneficial use site since July 20, 1993, and the cumulative amount of each pollutant applied at the authorized beneficial use site since that date is not known, an additional amount of each pollutant shall not be applied at the authorized beneficial use site.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D6	shall	Any person who beneficially uses class B biosolids subject to the cumulative pollutant loading rates in this rule at an authorized beneficial use site in Ohio shall provide written notice to the appropriate Ohio environmental protection agency district office prior to initial beneficial use of class B biosolids at the authorized beneficial use site.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D6	shall	The Ohio environmental protection agency shall retain and provide access to the notice.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	yes
3745-40-04	D6	shall	The notice shall include both of the following:	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	B5aiiai	must	For four consecutive hours during the five-day period, the temperature of the composting medium must rise above fifty-five degrees Celsius (one hundred thirty-one degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiibii	must	For four consecutive hours during the five-day period, the temperature of the composting medium must rise above fifty-five degrees Celsius (one hundred thirty-one degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiibiii	must	Finished compost used as insulation material to cover the aerated static pile must be exceptional quality biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	B5aiicii	must	For four consecutive hours during the five-day period, the temperature of the composting medium must rise above fifty-five degrees Celsius (one hundred thirty-one degrees Fahrenheit).	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-04	D1	must	[Comment: If more than one monitoring event occurs for the pollutants listed in table D-1 of this rule then all monitoring results must show pollutant levels below the pollutant ceiling concentrations listed in table D-1 of this rule.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-04	D2	must	If the permittee returns the sewage sludge to the sewage sludge treatment train, monitoring shall be repeated and the results must indicate that pollutants do not exceed the pollutant ceiling concentrations listed in table D-1 of this rule before biosolids are removed from the treatment works for beneficial use.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no

3745-40-04	B1ai	require	The director may require more than seven samples to be taken to ensure adequate representation.	6111.03 (R), 6111.042	federal required	40 CFR 503.31	yes	yes	no
3745-40-04	B2aii	require	To calculate the number of days of the mean cell residence time that is required for temperatures between fifteen and twenty degrees Celsius (between fifty-nine and sixty-eight degrees Fahrenheit), the following equation shall be used:	6111.03 (R), 6111.042	federal required	40 CFR 503.31	yes	yes	no
3745-40-04	B4aii	require	To calculate the number of days of the mean cell residence time required for temperatures between twenty and thirty degrees Celsius (between sixty-eight and ninety-five degrees Fahrenheit), the following equation should be used:	6111.03 (R), 6111.042	federal required	40 CFR 503.31	yes	yes	no
3745-40-04	B9biii	require	The hourly sewage sludge temperature for the twelve hours that the temperature is required to be maintained.	6111.03 (R), 6111.042	federal required	40 CFR 503.31	yes	yes	no
3745-40-04	C4b	require	At a minimum, SOUR testing shall be completed at the frequency required by table B-1 of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.33	yes	yes	no
3745-40-04	C9b	require	The certification statement, as required by rule 3745-40-09 of the Administrative Code, from the beneficial user shall be maintained and submitted to the director or an authorized representative with the annual report.	6111.03 (R), 6111.042	federal required	40 CFR 503.33	yes	yes	no
3745-40-04	D4	require	The pollutant ceiling concentrations, cumulative pollutant loading rates, and pollutant reporting period average concentrations for biosolids shall, as applicable, not exceed the concentrations listed in table D-1, table D-2 and table D-3 of this rule or as required by 40 C.F.R. part 503.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-05	A	shall	A permittee shall provide the initial person who receives class B or bulk exceptional quality biosolids information including, but not limited to all of the following:	6111.03 (R), 6111.042	federal required	40 CFR 503.12	yes	yes	no
3745-40-05	A6	shall	A statement that the biosolids shall be further treated, stored, transferred, disposed of or beneficially used in accordance with this chapter.	6111.03 (R), 6111.042	federal required	40 CFR 503.12	yes	yes	no
3745-40-05	B	shall	Any person who beneficially uses class B or bulk exceptional quality biosolids shall provide the beneficial use site operator a crop-year report for each beneficial use site.	6111.03 (R), 6111.042	federal required	40 CFR 503.12	yes	yes	no
3745-40-05	B	shall	In the event that more than one type of feed crop, fiber crop, food crop, or pasture is grown on a single beneficial use site where multiple beneficial use rates are used, a crop year report shall be submitted for each separate crop area.	6111.03 (R), 6111.042	federal required	40 CFR 503.12	yes	yes	no
3745-40-05	B	shall	At a minimum, the crop-year report shall include all of the following information:	6111.03 (R), 6111.042	federal required	40 CFR 503.12	yes	yes	no

3745-40-05	C	require	In order to protect public health or the environment, the director or an authorized representative may require any person who distributes biosolids or material containing biosolids to provide the initial person receiving the biosolids or material containing biosolids with additional information concerning the contents of the biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	A	shall	Prior to the beneficial use of class B biosolids, a permittee shall obtain written notice of authorization to beneficially use class B biosolids at a proposed beneficial use site from the director or an authorized representative pursuant to the permittee's NPDES permit or approved biosolids management plan.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	A1	shall	The permittee shall submit a notice of beneficial use site application to beneficially use class B biosolids on one or more proposed beneficial use sites in any county approved for beneficial use in the permittee's NPDES permit or biosolids management plan.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	A1a	shall	Notice of beneficial use site application requests shall be submitted on forms approved by the director at least forty-five days prior to the expected date of beneficial use.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	A1b	shall	At a minimum, a notice of beneficial use site application request shall contain all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	A2	shall	At a minimum, the isolation distances and site specific requirements contained in paragraphs (C) and (D) of rule 3745-40-08 of the Administrative Code shall be considered to determine the suitability of a site for the beneficial use of biosolids.	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-06	A3	shall	The director or an authorized representative shall notify the permittee in writing as to whether the site is authorized for the beneficial use of class B biosolids pursuant to the permittee's NPDES permit or approved biosolids management plan.	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-06	A4	shall	Ohio EPA shall maintain a map that includes each site authorized for the beneficial use of class B biosolids and make the map available on Ohio EPA's website.	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-06	B	shall	Biosolids shall be beneficially used at a site in accordance with this chapter, the permittee's NPDES permit or approved biosolids management plan, and the conditions stated in the notice of authorization of the specific beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	C	shall	Authorization to beneficially use biosolids at a site shall be valid for only the treatment works that are owned by the same permittee who signs the beneficial use site authorization application form approved by the director.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	D	shall	Any permittee who wishes to transfer an authorized beneficial use site from one treatment works to another shall make the request in writing on forms approved by the director and obtain written notice from the director or an authorized representative that the transfer is authorized prior to beneficial use at the authorized beneficial use site	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	E	shall	Prior to amending the acreage for a currently authorized beneficial use site or reducing an isolation distance from an occupied structure, a permittee shall request the change in writing on forms approved by the director, provide additional information if requested by the director or an authorized representative, and shall receive written notice from the director or an authorized representative that the amendment to the beneficial use site acreage or reduction of the isolation distance is authorized.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	E	shall	Prior to amending the acreage for a currently authorized beneficial use site or reducing an isolation distance from an occupied structure, a permittee shall request the change in writing on forms approved by the director, provide additional information if requested by the director or an authorized representative, and shall receive written notice from the director or an authorized representative that the amendment to the beneficial use site acreage or reduction of the isolation distance is authorized.	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-06	F	shall	The permittee shall certify that prior to beneficial use, each authorized beneficial use site was evaluated for changes at or near the authorized beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	F1	shall	Prior to the beneficial use of biosolids at an authorized beneficial use site, the permittee shall evaluate the site for any changes that have occurred at the site or near the site that may affect the site restrictions.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	F1	shall	Changes to evaluate shall include, but not be limited to all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	F2	shall	If no changes have occurred at or near the authorized beneficial use site since the site was authorized, the permittee shall certify that no changes were made on the annual sludge report or other report specified by Ohio EPA.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-06	F3	shall	If any changes have occurred at or near the authorized beneficial use site since the site was authorized, the permittee shall comply with the applicable site restrictions in this chapter of the Administrative Code and report the changes on the annual sludge report or other report specified by Ohio EPA.	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-06	A1bv	require	The beneficial use site information required by the notice of beneficial use site application forms including, but not limited to all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	A	shall	Biosolids shall be stored in a manner that is protective of human health and the environment and shall not impact waters of the state or create nuisance odors.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	no
3745-40-07	A	shall not	Biosolids shall be stored in a manner that is protective of human health and the environment and shall not impact waters of the state or create nuisance odors.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	no
3745-40-07	C	shall	Except as provided in rule 3745-40-10 of the Administrative Code, no person shall store class B biosolids at a site that has not been authorized by the director or an authorized representative for beneficial use in accordance with rule 3745-40-06 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D1	shall	The isolation distances listed in table D-1 of this rule shall be maintained for the field storage of class B and bulk exceptional quality biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D1 Table	shall	Table D-1: Isolation distance requirements that shall be maintained from the location of class B and bulk exceptional quality biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D2	shall	A request for an isolation distance reduction shall be made on forms approved by the director.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D3	shall	In addition to the isolation distance requirements in table D-1 of this rule, no person shall store class B biosolids in any of the following ways:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D3ai	shall	Within the sanitary isolation distance a public water system shall maintain for a drinking water supply well as established in rule 3745-9-04 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D2 Table	shall	The inner management zone; if the drinking water source protection area is underlain by karst or fractured bedrock and has been determined to be highly susceptible to contamination, the setback shall be extended to include the entire drinking water source protection area.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	D3aiii	shall	Where no emergency management zone has been delineated or endorsed by the Ohio environmental protection agency, the isolation distance shall consist of a circle with a radius of one thousand five hundred feet from the intake.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	E	shall	The maximum amount of class B or bulk exceptional quality biosolids to be delivered shall conform to both of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	E1	shall not	For any beneficial use site, shall not exceed the amount required to meet the calculated agronomic rate for the beneficial use site and any contiguous beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	E2	shall	For any land reclamation site, shall be in accordance with paragraph (B) of rule 3745-40-03 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F1	shall	A permit to install, in accordance with Chapter 3745-42 of the Administrative Code, shall be obtained from the director prior to storage of liquid biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F2	shall	The field storage of class B or bulk exceptional quality biosolids at any beneficial use site shall be in accordance with table F-1 of this rule.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F3	shall	For class B or bulk exceptional quality biosolids stored at a beneficial use site, the date of first delivery of the biosolids to the beneficial use site and the date that beneficial use of the biosolids is completed shall be recorded.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F4	shall	Surface water diversions and other best management practices shall be utilized when there is field storage of class B or bulk exceptional quality biosolids at any beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F5	shall	If biosolids cannot be beneficially used within ninety days after delivery to the beneficial use site, the biosolids shall be returned to the treatment works at which the biosolids were generated, taken to a landfill for disposal, taken to another treatment works or regional storage facility provided said treatment works or regional storage facility has an NPDES permit for the treatment, storage, transfer or disposal of biosolids, or taken to another beneficial use site where the biosolids shall be beneficially used the same day that the biosolids were removed from the previous beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F5	shall	If biosolids cannot be beneficially used within ninety days after delivery to the beneficial use site, the biosolids shall be returned to the treatment works at which the biosolids were generated, taken to a landfill for disposal, taken to another treatment works or regional storage facility provided said treatment works or regional storage facility has an NPDES permit for the treatment, storage, transfer or disposal of biosolids, or taken to another beneficial use site where the biosolids shall be beneficially used the same day that the biosolids were removed from the previous beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	G1	shall	A permit to install, in accordance with Chapter 3745-42 of the Administrative Code, shall be obtained from the director prior to the construction of a regional storage facility.	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-07	G2	shall	An NPDES permit shall be obtained prior to any treatment of biosolids at a regional storage facility.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	G3	shall	No person shall take any of the following actions:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	E1	require	For any beneficial use site, shall not exceed the amount required to meet the calculated agronomic rate for the beneficial use site and any contiguous beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	G	require	A regional storage facility is required when class B or bulk exceptional quality biosolids will be stored for more than ninety days at any location other than the generating treatment facility.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	H3	require	Require other measures to protect public health and the environment, or to minimize the creation of nuisance odors.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	no
3745-40-07	B	prohibit	If utilizing vector attraction reduction options nine (VAR-9) or ten (VAR-10), the field storage of class B biosolids is prohibited.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	F1 Table	prohibit	The field storage of biosolids for more than ninety days is prohibited.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-07	H2	prohibit	Prohibit the storage of biosolids at a beneficial use site or regional storage facility.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A1	shall	Any biosolids distributed for beneficial use (e.g. for landscaping or gardening) shall be exceptional quality biosolids, as defined in rule 3745-40-04 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.10	yes	yes	no
3745-40-08	A2	shall	Except as provided in paragraphs (A)(3) and (A)(7) of this rule, class B or bulk exceptional quality biosolids shall be beneficially used at the calculated agronomic rate at a beneficial use site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A2	shall	The agronomic rate shall be calculated prior to beneficial use and be the most limiting factor derived from the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A2aiia	shall	No additional phosphate application shall be made at the beneficial use site for a minimum of three calendar years.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A2c	shall	For soils with soil phosphorus test results greater than one hundred parts per million Bray-Kurtz P1 extraction or one hundred thirty parts per million Mehlich III extraction, beneficial use shall be completed in accordance with the phosphorus index.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A4	shall	Except as provided in paragraph (A)(2)(a)(iii) of this rule, the phosphate agronomic rate shall be limited to two hundred fifty pounds per acre.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A5	shall	For all beneficial use sites, the agronomic rate calculations shall include all sources of nitrogen and phosphate such as commercial fertilizer or manure in addition to class B or bulk exceptional quality biosolids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	A6	shall	The beneficial use of liquid class B or bulk exceptional quality biosolids shall be at or below the agronomic rate for the reasonably expected yield goal of planned crops or crop rotation, or at or below the available water capacity of the upper eight inches of soil, whichever is less at the time of beneficial use.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B1	shall	No person shall beneficially use biosolids if the concentration of any pollutant in the biosolids exceeds the ceiling concentration limits for the pollutants established in rule 3745-40-04 of the Administrative Code.	6111.03 (R), 6111.042	federal required	40 CFR 503.13	yes	yes	no
3745-40-08	B2aii	shall	No person shall beneficially use class B or bulk exceptional quality biosolids on frozen or snow-covered ground.	6111.03 (R), 6111.042	state required - ORC 6111.03 (J)(1)		yes	yes	no
3745-40-08	B3	shall	No person shall beneficially use class B or bulk exceptional quality biosolids on the surface of a beneficial use site when the top two inches of soil are saturated.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B4a	shall	Except as provided in paragraph (B)(4)(b) of this rule, no person shall beneficially use class B or bulk exceptional quality biosolids during a precipitation event, or when the forecast indicates that there is at least a fifty per cent chance that 0.5 inches of rain will occur within twenty-four hours after beneficial use.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B4a	shall	The forecast consulted shall be for the municipality nearest where the beneficial use site is located and shall be printed out or otherwise recorded and kept on file for each beneficial use event.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B4a	shall	The forecast consulted shall be for the municipality nearest where the beneficial use site is located and shall be printed out or otherwise recorded and kept on file for each beneficial use event.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B5a	shall	Except as provided in paragraphs (B)(5)(b) to (B)(5)(b)(ii) of this rule, no person shall beneficially use class B or bulk exceptional quality biosolids during a precipitation event or when the forecast indicates that there is at least a fifty per cent chance that 0.25 inches of rain will occur within twenty-four hours after beneficial use.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B5a	shall	The forecast consulted shall be for the municipality nearest where the beneficial use site is located and shall be printed out or otherwise recorded and kept on file for each beneficial use event.	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-08	B5a	shall	The forecast consulted shall be for the municipality nearest where the beneficial use site is located and shall be printed out or otherwise recorded and kept on file for each beneficial use event.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	B6	shall	No person shall beneficially use class B or bulk exceptional quality biosolids if such beneficial use is likely to adversely affect a threatened or endangered species listed under section four of the Endangered Species Act or pursuant to section 1531.25 of the Revised Code or the species' designated critical habitat.	6111.03 (R), 6111.042	federal required	40 CFR 503.14	yes	yes	no
3745-40-08	C1	shall	Except as provided in paragraph (C)(2) of this rule, no person shall beneficially use class B or bulk exceptional quality biosolids within the following isolation distances listed in table C-1 of this rule.	6111.03 (R), 6111.042	general authority and federal required	40 CFR 503.14	yes	yes	no
3745-40-08	C2	shall	No person shall beneficially use class B biosolids in any of the following areas:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	C2a	shall	Within the sanitary isolation distance a public water system shall maintain for a drinking water supply well, as established in rule 3745-9-04 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	C2b	shall	Where no emergency management zone has been delineated or endorsed by the Ohio environmental protection agency, the isolation distance shall consist of a circle with a radius of one thousand five hundred feet from the intake.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	Table C2	shall	The inner management zone; if the drinking water source protection area is underlain by karst or fractured bedrock and has been determined to be highly susceptible to contamination, the setback shall be extended to include the entire drinking water source protection area	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	C3	shall	A request for an isolation distance reduction shall be made on forms approved by the director.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D	shall	Any person who beneficially uses class B or bulk exceptional quality biosolids shall meet the following site specific requirements, as applicable:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D1	shall	No person shall beneficially use class B or bulk exceptional quality biosolids at a beneficial use site that is frequently flooded, as defined in rule 3745-40-01 of the Administrative Code, so that the class B or bulk exceptional quality biosolids enter surface waters of the state, except as provided in an NPDES permit issued under Chapter 6111. of the Revised Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D1	shall	Beneficial use of class B or bulk exceptional quality biosolids at a beneficial use site shall be limited to same day incorporation or injection on areas of beneficial use sites that are frequently flooded during periods when flooding is expected.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D2	shall	. No person shall beneficially use class B or bulk exceptional quality biosolids at food crop, feed crop, fiber crop, or cover crop land over fifteen per cent slope or at pasture land or vegetation land over twenty per cent slope unless one of the following activities is performed:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D3	shall	If soil monitoring results for either soil phosphorus or soil pH are more than three years old, the soil shall be retested prior to the class B or bulk exceptional quality biosolids being delivered to a beneficial use site for beneficial use.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D3	shall	Composite soil samples shall be taken for both of the following	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D3a	shall	Prior to the beneficial use of class B or bulk exceptional quality biosolids, the soil phosphorus level shall be monitored utilizing either the Bray-Kurtz P1 extraction or Mehlich III extraction method.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D3b	shall	Minimum soil pH for the beneficial use of class B biosolids shall be 5.5.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D3b	shall	If the soil pH at a beneficial use site is less than 5.5, sufficient liming material shall be added such that the class B biosolids and soil mixture pH is calculated to reach 5.5 or greater.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4	shall	If soil samples are required by paragraph (D)(3) of this rule, the samples shall be taken in accordance with the following requirements	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4a	shall	A composite sample shall represent fifteen to twenty acres of area that is uniform in soil series, slope, drainage, erosion, and nutrient application (including biosolids).	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4b	shall	Soil grab samples shall be taken seventy-five to one hundred feet apart with a minimum of fifteen grab samples in a composite sample.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4c	shall	Low spots or other unusual areas such as biosolids or liming material stockpiling areas, and fertilizer spills shall not be included in composite samples and shall be sampled separately.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4d	shall not	Low spots or other unusual areas such as biosolids or liming material stockpiling areas, and fertilizer spills shall not be included in composite samples and shall be sampled separately.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4e	shall	For row crops, samples shall be taken between rows.	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-08	D4f	shall	For establishing grass pasture crops, samples shall be collected to the rooting zone (three to four inches).	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4g	shall	All grab samples shall be broken up and mixed thoroughly before the sample is composited.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4h	shall	Soil samples collected to analyze for soil phosphorus shall be collected prior to spring planting.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	For beneficial use sites with subsurface tile drainage, all field outlets shall be visually monitored before, during and after beneficial use of liquid class B or liquid bulk exceptional quality biosolids at the beneficial use site and the results of that monitoring shall be recorded.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	For beneficial use sites with subsurface tile drainage, all field outlets shall be visually monitored before, during and after beneficial use of liquid class B or liquid bulk exceptional quality biosolids at the beneficial use site and the results of that monitoring shall be recorded.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	Daily visual monitoring shall continue until biosolids are assimilated into the beneficial use site and are no longer likely to discharge to waters of the state.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	. Methods or devices to stop or capture subsurface drain flow shall be accessible.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	If liquid class B or liquid bulk exceptional quality biosolids reach the subsurface drain outlet to surface waters of the state, the beneficial use of liquid biosolids shall cease and the flow shall be stopped or captured.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	If liquid class B or liquid bulk exceptional quality biosolids reach the subsurface drain outlet to surface waters of the state, the beneficial use of liquid biosolids shall cease and the flow shall be stopped or captured.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5a	shall	Use of drain outlet plugs or other devices shall be recorded.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5b	shall	For beneficial use of liquid class B or liquid bulk exceptional quality biosolids at beneficial use sites with subsurface tile drainage, all of the following criteria shall be followed:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5bi	shall	Beneficial use rates shall be less than or equal to 0.5 inches or thirteen thousand gallons per acre per beneficial use event.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5bii	shall	A tool shall be used that can disrupt or close the preferential flow paths in the soil using horizontal fracturing, or the surface of the soil shall be tilled three to five inches deep to a seedbed condition to soak up the liquid class B or liquid bulk exceptional quality biosolids and keep it out of preferential flow channels.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5bii	shall	A tool shall be used that can disrupt or close the preferential flow paths in the soil using horizontal fracturing, or the surface of the soil shall be tilled three to five inches deep to a seedbed condition to soak up the liquid class B or liquid bulk exceptional quality biosolids and keep it out of preferential flow channels.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5biii	shall	If injection is used, liquid class B or liquid bulk exceptional quality biosolids shall only be injected deep enough to cover the biosolids with soil.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5biii	shall	The soil shall be tilled at least three inches below the depth of injection prior to or at the time of beneficial use.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D5c	shall	A standard operating procedure shall be developed by the beneficial user or permittee for beneficial use sites with tile drainage to address paragraphs (D)(4)(a) and (D)(4)(b) of this rule.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	E1	shall not	Food crops with harvested parts that touch the biosolids or soil mixture and are on the surface of the authorized beneficial use site shall not be harvested for fourteen months after the beneficial use of class B biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E2	shall not	Food crops with harvested parts below the surface of the authorized beneficial use site shall not be harvested for twenty months after the beneficial use of class B biosolids when the biosolids remained on the surface of the authorized beneficial use site for four months or longer prior to incorporation into the soil.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E3	shall not	Food crops with harvested parts below the surface of the authorized beneficial use site shall not be harvested for thirty-eight months after the beneficial use of class B biosolids when the class B biosolids remained on the surface of the authorized beneficial use site for less than four months prior to incorporation into the soil.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E4	shall not	All other food crops, feed crops, and fiber crops shall not be harvested for thirty days after the beneficial use of class B biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E5	shall not	Animals shall not be allowed to graze on the authorized beneficial use site for thirty days after the beneficial use of class B biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no

3745-40-08	E6	shall not	Turf or other vegetation grown for landscaping purposes that is grown on an authorized beneficial use site where class B biosolids are beneficially used shall not be harvested for one year after the beneficial use of class B biosolids when the harvested turf or other vegetation is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the director.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E7	shall	Public access to a high potential public exposure site shall be restricted for one year after the beneficial use of class B biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E8	shall	Public access to a low potential public exposure site shall be restricted for thirty days after the beneficial use of class B biosolids.	6111.03 (R), 6111.042	federal required	40 CFR 503.32	yes	yes	no
3745-40-08	E10	shall not	Drag hoses and mobile storage tanks shall not be utilized at authorized beneficial use sites until a standard operating procedure has been developed under paragraph (C) of rule 3745-40-09 of the Administrative Code and a permit to install, if applicable, is obtained.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	D4	require	If soil samples are required by paragraph (D)(3) of this rule, the samples shall be taken in accordance with the following requirements:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-08	E9	prohibit	The mixing of class B biosolids from different treatment works at an authorized beneficial use site is prohibited, unless in accordance with paragraph (C) of rule 3745-40-06 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	A1	shall	Except as provided in paragraph (A)(2) of this rule, a permittee shall collect and analyze, as applicable, representative samples of biosolids in accordance with table A-1 of this rule, or any other method as approved under 40 C.F.R. 503.	6111.03 (R), 6111.042	federally required	40 CFR 503.8	yes	yes	no
3745-40-09	A1	shall	The following methods or methods listed in 40 C.F.R. Part 136 shall be used to analyze samples of biosolids and are adopted by reference in this chapter.	6111.03 (R), 6111.042	federally required	40 CFR 503.8	yes	yes	no
3745-40-09	B	shall	For any NPDES permit issued by the director, monitoring frequencies shall be in accordance with this paragraph	6111.03 (R), 6111.042	federally required	40 CFR 503.16	yes	yes	no
3745-40-09	B1a	shall	Each day when sewage sludge or biosolids are removed from the treatment works for disposal, a representative composite sample of the sewage sludge or biosolids, as applicable, shall be collected and analyzed for total solids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B1b	shall	Each day when biosolids are removed from the treatment works for beneficial use, a representative composite sample of the biosolids shall be collected and analyzed for total solids.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B2	shall	Each day when sewage sludge or biosolids are transferred to another treatment works, the total volume of sewage sludge or biosolids removed for transfer shall be documented.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B3	shall	To ensure that pathogen reduction requirements are met prior to beneficial use, monitoring shall occur for pathogen reduction prior to beneficial use.	6111.03 (R), 6111.042	federally required	40 CFR 503	yes	yes	no
3745-40-09	B3a	shall	Monitoring for pathogen reduction shall be performed as necessary to show compliance with all processing requirements and, at a minimum, in accordance with table B-1 of this rule.	6111.03 (R), 6111.042	federally required	40 CFR 503.7	yes	yes	no
3745-40-09	B3b	shall	If beneficial use does not occur in a reporting period, the number of samples collected and reported for pathogen reduction shall be increased during the next beneficial use event to include the missed monitoring periods, unless all previously accumulated sewage sludge has been removed and disposed of via a landfill, through incineration or by transfer to another treatment works.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B4	shall	To ensure that vector attraction requirements are met prior to beneficial use, monitoring shall occur for vector attraction reduction prior to beneficial use.	6111.03 (R), 6111.042	federally required	40 CFR 503.7	yes	yes	no
3745-40-09	B4a	shall	Monitoring for vector attraction reduction shall be performed as necessary to show compliance with all processing requirements and, at a minimum, in accordance with table B-1 of this rule.	6111.03 (R), 6111.042	federally required	40 CFR 503.7	yes	yes	no
3745-40-09	B5a	shall	The following is a list of parameters that shall be monitored for prior to beneficial use in accordance with the frequencies in table B-1 of this rule:	6111.03 (R), 6111.042	federally required and general authority	40 CFR 503.13	yes	yes	no
3745-40-09	B5b	shall	For any NPDES permit or biosolids management plan issued by the director, minimum frequency of monitoring for metals and nutrients shall be in accordance with table B-1 of this rule.	6111.03 (R), 6111.042	federally required and general authority	41 CFR 503.16	yes	yes	no
3745-40-09	B5b	shall	This monitoring shall occur even if beneficial use does not occur during a reporting period, or the number of samples collected and reported shall be increased prior to the next beneficial use event to account for the reporting period in which beneficial use did not occur, unless all previously accumulated sewage sludge has been removed and disposed of via a landfill, through incineration or by transfer to another treatment works.	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-09	B5b	shall	This monitoring shall occur even if beneficial use does not occur during a reporting period, or the number of samples collected and reported shall be increased prior to the next beneficial use event to account for the reporting period in which beneficial use did not occur, unless all previously accumulated sewage sludge has been removed and disposed of via a landfill, through incineration or by transfer to another treatment works.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B5c	shall	For any NPDES permit or biosolids management plan issued by the director that does not include sampling requirements for total phosphorus or total potassium, the minimum frequency of monitoring for total phosphorus or total potassium shall be in accordance with table B-1 of this rule.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6b	shall	If monitoring for dioxin is required, the treatment works shall monitor for dioxin in sewage sludge, such that all of the following requirements are met:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6biii	shall	The 2, 3, 7, 8-TCDD total toxicity equivalence of the dioxin in sewage sludge, calculated from the twenty-nine dioxin congeners defined in rule 3745-40-01 of the Administrative Code, shall be reported as part of the permittee's monthly operating report.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6biv	shall	All dioxin in sewage sludge monitoring results shall be retained by the permittee for a minimum of five years and shall be submitted to the Ohio environmental protection agency upon request.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6biv	shall	All dioxin in sewage sludge monitoring results shall be retained by the permittee for a minimum of five years and shall be submitted to the Ohio environmental protection agency upon request.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6biv	shall	The results shall include all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6bv	shall	Both of the following analytical methods shall be used for the analysis of dioxin in sewage sludge:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6bva	shall	United States environmental protection agency method number 1613B, 1994 shall be used for the seven 2, 3, 7, 8 chlorinated dibenzo-p-dioxin congeners and ten 2, 3, 7, 8 chlorinated dibenzofuran congeners.	6111.03 (R), 6111.042	federally required	40 CFR 136	yes	yes	no
3745-40-09	B6bva	shall	United States environmental protection agency method number 1668A (U.S. EPA number 821/C-97-005821/C-97-005) shall be used for the twelve coplanar polychlorinated biphenyl congeners.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6bvi	shall	Non-detected values shall be reported as one half of the detection limit.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6bvii	shall	The toxicity equivalence factors (TEF) listed in table B-2 of this rule shall be used in the calculation of the 2, 3, 7, 8-TCDD total toxicity equivalence.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6bviii	shall	If the sample shows results above three hundred parts per trillion total toxicity equivalence, all beneficial use or distribution of the biosolids shall cease.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C1	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares exceptional quality biosolids for the purpose of beneficial use or distribution shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C1	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares exceptional quality biosolids for the purpose of beneficial use or distribution shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C1	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares exceptional quality biosolids for the purpose of beneficial use or distribution shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C1c	shall	The standard operating procedure shall include the following, at a minimum, when applicable:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C2	shall	The person who beneficially uses bulk exceptional quality biosolids shall develop the following information, shall retain the following information for a minimum of five years, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no

3745-40-09	C2	shall	The person who beneficially uses bulk exceptional quality biosolids shall develop the following information, shall retain the following information for a minimum of five years, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C2	shall	The person who beneficially uses bulk exceptional quality biosolids shall develop the following information, shall retain the following information for a minimum of five years, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C3	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares class B biosolids for the purpose of beneficial use shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C3	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares class B biosolids for the purpose of beneficial use shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C3	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares class B biosolids for the purpose of beneficial use shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C3c	shall	The standard operating procedure shall include all of the following at a minimum, when applicable:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C4	shall	The person who beneficially uses class B biosolids shall develop the following information, shall retain the following information for a minimum of five years, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C4	shall	The person who beneficially uses class B biosolids shall develop the following information, shall retain the following information for a minimum of five years, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C4	shall	The person who beneficially uses class B biosolids shall develop the following information, shall retain the following information for a minimum of five years, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C4f	shall	At a minimum, this description shall include the following:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C5	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares class B biosolids that are subject to cumulative pollutant loading rates, for the purpose of beneficial use, shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C5	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares class B biosolids that are subject to cumulative pollutant loading rates, for the purpose of beneficial use, shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C5	shall	In addition to the recordkeeping requirements in rule 3745-40-04 of the Administrative Code, the permittee who prepares class B biosolids that are subject to cumulative pollutant loading rates, for the purpose of beneficial use, shall develop the following information, shall retain the following information for a minimum of five years at the treatment works, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C5c	shall	The standard operating procedure shall include all of the following at a minimum, when applicable:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no

3745-40-09	C6	shall	The person who beneficially uses class B biosolids subject to cumulative pollutant loading rates shall develop the following information, shall retain the following information indefinitely, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C6	shall	The person who beneficially uses class B biosolids subject to cumulative pollutant loading rates shall develop the following information, shall retain the following information indefinitely, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C6	shall	The person who beneficially uses class B biosolids subject to cumulative pollutant loading rates shall develop the following information, shall retain the following information indefinitely, and shall make all of the following information available to the director or an authorized representative upon request:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C6n	shall	At a minimum, this description shall include both of the following:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C7	shall	The beneficial user of class B or bulk exceptional quality biosolids shall develop and maintain all of the following information at the beneficial use site during the period class B or bulk exceptional quality biosolids are beneficially used:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C7d	shall	The applicable isolation distances for the beneficial use of class B or bulk exceptional quality biosolids that shall be satisfied at the beneficial use site	6111.03 (R), 6111.042	federally required and general authority	40 CFR 503.17	yes	yes	no
3745-40-09	D	shall	A permittee shall submit an annual sewage sludge or biosolids report to the director or an authorized representative.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	D	shall	The annual sewage sludge or biosolids report shall include, but not be limited to, both of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	D1 comment	shall	[Comment: The Ohio environmental protection agency annual sewage sludge report shall be submitted through the Ohio EPA ebusiness center, division of surface water NPDES permit applications service.]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B1	require	In addition to the following monitoring frequencies, the director may require additional monitoring to protect public health or the environment:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B3b comment	require	[Comment: - For example, for a treatment works that would be required to monitor their sewage sludge on a quarterly basis, but only has one annual beneficial use event, and that relies on fecal coliform monitoring to meet pathogen reduction, four separate sets of seven fecal coliform samples with the appropriate four separate geometric mean calculations would be required.]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B3b comment	require	[Comment: - For example, for a treatment works that would be required to monitor their sewage sludge on a quarterly basis, but only has one annual beneficial use event, and that relies on fecal coliform monitoring to meet pathogen reduction, four separate sets of seven fecal coliform samples with the appropriate four separate geometric mean calculations would be required.]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B4b	require	Monitoring for vector attraction reduction is not required when vector attraction reduction options VAR-9 or VAR-10, in accordance with rule 3745-40-04 of the Administrative Code, are utilized.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	table B-1	require	Table B-1: Minimum frequency of monitoring required for the beneficial use of biosolids based on amount of sewage sludge generated per calendar year.	6111.03 (R), 6111.042	federal required	40 CFR 503.16	yes	yes	no
3745-40-09	table B-1	require	Minimum frequency of required monitoring	6111.03 (R), 6111.042	federal required	40 CFR 503.16	yes	yes	no
3745-40-09	B6a	require	To protect public health or the environment, the director may require monitoring for dioxin for any treatment works, to do both of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6b	require	If monitoring for dioxin is required, the treatment works shall monitor for dioxin in sewage sludge, such that all of the following requirements are met:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	B6bi	require	All analyses for dioxin in sewage sludge that are required by this rule are performed by a laboratory equipped to provide accurate results	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C	require	Record retention is required by all of the following people:	6111.03 (R), 6111.042	federally required	40 CFR 503.17	yes	yes	no
3745-40-09	C1a	require	The results of all analyses as required in paragraph (B) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C1cv	require	Sample or monitoring analysis procedures, including any calculations required for sample or monitoring analysis.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C1e	require	A copy of the information required to be maintained in accordance with paragraph (C)(2) of this rule.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C3a	require	The results of all analyses as required in paragraph (B) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C3cv	require	Sample or monitoring analysis procedures, including any calculations required for sample or monitoring analysis.	6111.03 (R), 6111.042	general authority		yes	no	no

3745-40-09	C3f	require	A copy of the information required to be maintained in accordance with paragraph (C)(4) of this rule.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C5a	require	The results of all analyses as required in paragraph (B) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C5cv	require	Sample or monitoring analysis procedures, including any calculations required for sample or monitoring analysis.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	C5f	require	A copy of the information required to be maintained in accordance with paragraph (C)(6) of this rule.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	D1	require	The information requested in the Ohio environmental protection agency annual sewage sludge report, including copies of all certification statements required in paragraph (C) of rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-09	D2	require	Any records, as required in accordance with rules 3745-40-04 and 3745-40-08 of the Administrative Code including, but not limited to, all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-10	A1	shall	Facility storage requirements. Except as provided in paragraph (B) of this rule, facility storage of sewage sludge or biosolids shall meet all of the following requirements:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-10	A3	shall	Be approved by a permit to install that shall be obtained from the director in accordance with Chapter 3745-42 of the Administrative Code prior to the construction of any facility storage.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	A	shall	Unless deemed otherwise by the director, any authorized beneficial use site, where class B biosolids are beneficially used, shall have signs that adhere, at a minimum, to the following requirements:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	A3	shall	The sign shall face the public road.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	B	shall	In addition to the requirements of paragraphs (A)(1) to (A)(8) of this rule, for any high potential public exposure site receiving class B biosolids, the permittee shall have signage in place for a minimum of one year after the termination of beneficial use activity at the site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	C	shall	In addition to the requirements of paragraphs (A)(1) to (A)(8) of this rule, for any low potential public exposure site receiving class B biosolids, the permittee shall have signage in place for a minimum of thirty days after the termination of beneficial use activity at the site.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	D	shall	The beneficial user shall maintain records of the date when signs were posted and removed from any authorized beneficial use site in accordance with rule 3745-40-09 of the Administrative Code.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	D comment	shall	[Comment: For signs that will remain permanently posted on an authorized beneficial use site, the date of removal shall be the date that visual confirmation is made to verify that the sign is still posted for the time required by rule.]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	D Comment	require	[Comment: For signs that will remain permanently posted on an authorized beneficial use site, the date of removal shall be the date that visual confirmation is made to verify that the sign is still posted for the time required by rule.]	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-11	A6	prohibit	Read: "NOTICE: OHIO EPA AUTHORIZED CLASS B BIOSOLIDS BENEFICIAL USE SITE. TRESPASSING IS PROHIBITED."	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-12	B	shall	The permittee shall notify the Ohio environmental protection agency by calling 1-800-282-9378 as soon as possible, but no later than twenty-four hours following the first discovery by the permittee that sewage sludge or biosolids have entered waters of the state.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-12	B	shall	Within fourteen days after the sewage sludge or biosolids are discharged into waters of the state, the permittee shall submit a report to the director or an authorized representative that includes all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-12	C	shall	The permittee shall notify the appropriate Ohio environmental protection agency district office as soon as possible, but no later than twenty-four hours following the first discovery by the permittee that sewage sludge or biosolids have spilled.	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-12	C	shall	Within fourteen days after the sewage sludge or biosolids are spilled, the permittee shall submit a report to the director or an authorized representative that includes at least all of the following:	6111.03 (R), 6111.042	general authority		yes	no	no
3745-40-12	A2	require	Deny any NPDES permit or biosolids management plan application not in compliance with this chapter and require the submittal of a new NPDES permit or biosolids management plan application, including all applicable fees to the Ohio environmental protection agency within thirty days.	6111.03 (R), 6111.042	general authority		yes	no	yes
3745-40-12	A6	require	Require any person treating, storing, transferring or disposing of sewage sludge or biosolids that have resulted in a nuisance odor to take measures to eliminate the nuisance odor.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	yes

3745-40-12	A8	require	Require any person who beneficially uses biosolids that have resulted in a nuisance odor to cease beneficial use.	6111.03 (R), 6111.042	State required 6111.03 (R)(1)(E)		yes	yes	yes
3745-40-12	A12	require	To ensure the protection of human health or the environment, require sampling and monitoring for additional pollutants beyond the requirements in this chapter.	6111.03 (R), 6111.042	general authority		yes	no	yes

OAC Rule #	Paragraph	Restriction	Description/Quotation	Statutory Authority	Required by State or Fed Law or general authority?	If Fed, crosswalk?	Federally delegated program?	Removal would require state or federal law change?	Requirement on the agency or director?
3745-42-01	M3	shall not	The addition of new connections to a public sewage system shall not be considered a modification of the sewage system.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-01	S4	shall	For the purposes of this definition, liquid industrial waste shall possess characteristics similar to sewage.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-01	H1b	must	Must be hauled for recycling, treatment or disposal.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-01	O2	require	"Ohio EPA" means the Ohio environmental protection agency or its director, as the context or other law or regulations may require.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-01	O3	may not	The operator may or may not be the owner of the disposal system.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-02	A1a	shall	Except as provided in paragraphs (B) to (D)(3) of this rule, no person shall cause, permit or allow the installation of a new disposal system or cause, permit or allow the modification of a disposal system without first obtaining an individual permit to install, a general permit to install or plan approval in accordance with this chapter and all other applicable rules and laws.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	A1b	shall	An application for a permit to install for any disposal system shall include detailed plans in accordance with this chapter and all other applicable rules and laws.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	A1c	shall	The approval of a permit to install shall constitute approval of the detailed plans for the disposal of waste and for the disposal system pursuant to sections 6111.44 and 6111.45 of the Revised Code.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B1aiii	shall not	Any costs associated with these design changes shall not be used as part of any cost effectiveness evaluation.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B1bi	shall	Site preparation activities performed prior to the issuance of a permit to install or plan approval shall comply with all of the following:	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B1biie	shall	A soil and site evaluation for any soil based treatment system shall be approved prior to beginning any site preparation activities.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B1biif	shall	A soil and site evaluation for any land application area shall be approved prior to beginning any site preparation activities.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B5	shall	Waste from a mobile carpet cleaner shall be disposed of at a publicly owned treatment works or a commercial wastewater treatment works with an effective NPDES permit.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B16b	shall	The repair or replacement shall be considered operation and maintenance issues and not the installation of treatment systems	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B18	shall	If the disposal system is installed to meet a specific numeric effluent limitation in an NPDES permit or is required as a result of director's findings and orders or alternative judicial or administrative order, a permit to install or plan approval shall be obtained.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B19d	shall	If at the end of the pilot study, the owner or operator chooses to incorporate pilot study components into the existing treatment works, a permit to install shall be obtained.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	F1	shall	A permit to install or plan approval shall terminate eighteen months from the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete, within a reasonable time, a continuing program of installation or modification.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	F2	shall	No appeal taken from denial of extension of an expiration date shall prevent termination of a permit during the period between denial of extension and final disposition of the appeal unless prohibited by any court or administrative body having jurisdiction over the matter.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	G2	shall	When a permittee requests a revocation, the director, without prior hearing, shall make a final determination on the application.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	yes
3745-42-02	H1	shall	Transfers shall only be made for permits to install or plan approvals that meet any of the following conditions:	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	H2	shall	Written application for a transfer shall be submitted to the director at least sixty days prior to any proposed transfer.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no

3745-42-02	H2	shall	The transferee shall be responsible for informing Ohio EPA that the transferee will assume the responsibilities of the original permittee transferor.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	H2	shall	The director shall notify both the original permittee transferor or the transferee in writing of the decision.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	yes
3745-42-02	I	shall	. A permit to install or plan approval shall be issued, modified, revoked or denied and may be challenged in accordance with the provisions of the rules of procedure of the Ohio EPA, Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	yes
3745-42-02	A3	require	The director, at the director's discretion or where required by federal laws or regulations, may issue a single permit to install or plan approval having application to all pollutants of any kind emanating from any disposal system, or may issue a single permit to install or plan approval having applicability to more than one disposal system controlled by a common owner or operator located in the same county.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B	require	Unless deemed otherwise by the director, a permit to install or plan approval, whichever is applicable, is not required for the following:	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B3a	require	Except as provided in paragraph (B)(3)(b) of this rule, a permit to install or plan approval is not required for an external FOG interceptor, where the external FOG interceptor meets all of the following conditions:	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B3b	require	The director may require a permit to install or plan approval, as applicable, for any FOG interceptor that receives industrial wastewater or wastewater that does not meet the definition of sewage, as defined by Chapter 6111. of the Revised Code.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B11d	require	The director may require a permit to install, plan approval or an NPDES permit to protect public health or the environment.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B18	require	If the disposal system is installed to meet a specific numeric effluent limitation in an NPDES permit or is required as a result of director's findings and orders or alternative judicial or administrative order, a permit to install or plan approval shall be obtained.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	D	require	No permit to install or plan approval, whichever is applicable, is required for the modification of a disposal system if any of the following conditions are met:	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	A4	prohibit	Notwithstanding any other provision of this rule, compliance with this chapter does not relieve any person from the requirements of Chapter 3734. or 3714. of the Revised Code and rules adopted thereunder, including provisions prohibiting the establishment of a facility.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	B1bii	prohibit	Site activities that are prohibited prior to obtaining a permit to install or plan approval include any of the following:	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-02	F2	prohibit	No appeal taken from denial of extension of an expiration date shall prevent termination of a permit during the period between denial of extension and final disposition of the appeal unless prohibited by any court or administrative body having jurisdiction over the matter.	6111.03, 6111.04, 6111.44, 6111.45, 6111.451, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-03	A	shall	Applications for both permits to install and plan approvals required by rule 3745-42-02 of the Administrative Code shall be made using forms prepared by Ohio EPA and shall contain such information as the director deems necessary to determine whether the criteria of rule 3745-42-04 of the Administrative Code are met.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-03	A	shall	Applications for both permits to install and plan approvals required by rule 3745-42-02 of the Administrative Code shall be made using forms prepared by Ohio EPA and shall contain such information as the director deems necessary to determine whether the criteria of rule 3745-42-04 of the Administrative Code are met.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-03	B	shall	Applications for permits to install and plan approvals shall be signed by the person, firm, agency or entity responsible for constructing the disposal system.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-03	B	shall	The application shall be signed as follows:	6111.03	State general authority - 6111.03 (G)		no	no	no

3745-42-03	C	shall	(C)In the case of plan approval for the land application of sludge, the application shall be signed by either the president, vice-president or highest ranking corporate officer with offices located in the state, or the owner of the entity planning to apply the sludge, or the highest elected official of the municipality from which the sludge is generated.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	D	shall	The signatures shall constitute personal affirmation that all statements or assertions of fact made in the application are true and complete and comply fully with applicable state requirements and shall subject the signatory to liability under section 2921.13 of the Revised Code.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	D	shall	The signatures shall constitute personal affirmation that all statements or assertions of fact made in the application are true and complete and comply fully with applicable state requirements and shall subject the signatory to liability under section 2921.13 of the Revised Code.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E	shall	Before the director will review an application package, it shall contain at a minimum the following items:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E3	shall	Any sewage disposal system company, as defined in section 4905.03 of the Revised Code, that is or will be regulated as a public utility shall obtain and submit to the director a copy of their certificate of necessity and need from the public utilities commission of Ohio, as required by section 4933.25 of the Revised Code.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E4	shall	At a minimum, the report shall include the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6	shall	The plans and specifications shall be submitted in accordance with the following requirements, as applicable:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6a	shall	All detailed plan sheets shall be eleven inches by seventeen inches, twenty-two inches by thirty-four inches, or twenty-four inches by thirty-six inches.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6a	shall	Each sheet shall have a sufficient margin to allow for proper binding and complete title blocks. Each set of plan sheets submitted on paper shall be bound together.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6a	shall	Each sheet shall have a sufficient margin to allow for proper binding and complete title blocks. Each set of plan sheets submitted on paper shall be bound together.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6b	shall	Each set of detailed plans shall contain the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6c	shall	Each set of detailed plans shall contain a site plan showing, where applicable:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E6d	shall	Each set of detailed plans shall contain a vicinity map showing surrounding roadways, railroad tracks, and major water courses within at least one thousand feet of the project.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	H	shall	Except for cities, villages, counties and other public entities, public utilities, or industrial applicants, any applicant proposing to install a disposal system to collect or treat sewage from two or more homes or collect or treat sewage with an average design flow of ten thousand gallons per day or greater, shall submit the following information as part of a permit application in addition to the information required in paragraphs (A) to (E) of this rule to demonstrate financial, legal and technical ability to own and operate a disposal system:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	H5	shall	For an association of home or property owners served by the disposal system, the document establishing the association shall impose covenants or restrictions on the land of each property owner that assures the proper long-term operation and maintenance of the disposal system including at a minimum the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	H6	shall	At a minimum, the financial plan shall include the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I	shall	In addition to the information contained in paragraphs (A) to (E) of this rule, applications for permits to install for industrial waste treatment works that have a direct discharge to waters of the state or are tributary to a treatment works (i.e., an indirect discharger) shall include, as applicable, all of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I1	shall	The application shall contain a statement by the sewer authority that it is aware of the proposed project and agrees to accept the treated industrial waste from the applicant's facility.	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-03	I1	shall	If the applicant is proposing to connect to, or construct or modify an existing sewerage system tributary to, a sanitary sewer that is not owned or operated by the sewer authority responsible for treating the industrial waste, then the connection, construction or modification shall be through an approved sewer tap to the sewerage system.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I2	shall	In the schematic diagram, the applicant shall do the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I3	shall	In the engineering report, the applicant shall do the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I3a	shall	The project summary shall also identify the appropriate categorical regulations, the appropriate local effluent limitations, and any applicable court orders or pretreatment standards.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I3biii	shall	Particular emphasis shall be directed towards applicable standards, toxic pollutants, and pollutants that the industrial waste pretreatment facilities are designed to remove.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	A1	must	(1)Any of the following must be signed and certified by a professional engineer licensed by the Ohio state board of registration for professional engineers and surveyors:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E4b	must	The basis of the projections of initial and future flows and wastewater load must be included and must reflect the existing or initial service area, and the anticipated future service area.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E4b	must	The basis of the projections of initial and future flows and wastewater load must be included and must reflect the existing or initial service area, and the anticipated future service area.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	H5g	must	That the association must continue in existence until after the disposal system is properly closed.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	I1	must	The approval and statement may be in the form of a letter from the sewer authority, or each set of plans must be signed by the sewer authority.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	A	require	Applications for both permits to install and plan approvals required by rule 3745-42-02 of the Administrative Code shall be made using forms prepared by Ohio EPA and shall contain such information as the director deems necessary to determine whether the criteria of rule 3745-42-04 of the Administrative Code are met.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	A2	require	Applications for permits to install or plan approvals that are not required to be signed and certified by a professional engineer licensed by the Ohio state board of registration for professional engineers and surveyors include the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	A3	require	In addition to the specific types of documents in paragraph (A)(1) of this rule, the director may require other documents submitted under this chapter to be signed and certified by a professional engineer licensed by the Ohio state board of registration for professional engineers and surveyors to protect human health or the environment.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	B	require	If, after construction, the disposal system will be turned over to a public entity or another party to own, operate or maintain, the director may require both persons responsible for construction and the future owner or operator or person who maintains the system to sign the permit application and be subject to the terms and conditions of the permit issued thereafter.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E3	require	Any sewage disposal system company, as defined in section 4905.03 of the Revised Code, that is or will be regulated as a public utility shall obtain and submit to the director a copy of their certificate of necessity and need from the public utilities commission of Ohio, as required by section 4933.25 of the Revised Code.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E4	require	Except for sanitary sewer extension projects containing sewer pipe less than fifteen inches in diameter and industrial waste treatment works projects covered under paragraph (I)(3) of this rule, an engineering report describing the design features and operation features necessary to enable the disposal system to achieve the required effluent quality.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	E5	require	An explanation of how best available technology, as required in rule 3745-42-04 of the Administrative Code, is achieved, if applicable.	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-03	E6biii	require	The name of the engineer preparing the plans, the original handwritten or an electronic signature (i.e., unique identifier or personal identification number (PIN) for electronically submitted plans) of the engineer and the engineer's stamp on the title sheet of the detailed plans when required by paragraph (A) of this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	F	require	The director may waive submittal requirements identified in paragraph (E)(7) of this rule for specific technologies or project types, such as industrial projects that require a permit to install prior to funding procurement, as necessary to efficiently review the application package and administer this chapter.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	F	require	The director may require that prior to the initiation of construction or initiation of operation, that plans required in paragraph (E)(7) of this rule have been submitted.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	F	require	The director may require that prior to the initiation of construction or initiation of operation, that plans required in paragraph (E)(7) of this rule have been submitted.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	G	require	The director may allow electronic submittal of any document required to be submitted by this rule. If the director allows electronic submittal, the director may allow the applicant to submit only one electronic copy of the document, even if the applicant would be required to submit more than one copy in non-electronic form by this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	G	require	The director may allow electronic submittal of any document required to be submitted by this rule. If the director allows electronic submittal, the director may allow the applicant to submit only one electronic copy of the document, even if the applicant would be required to submit more than one copy in non-electronic form by this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-03	H	require	(H)Except for cities, villages, counties and other public entities, public utilities, or industrial applicants, any applicant proposing to install a disposal system to collect or treat sewage from two or more homes or collect or treat sewage with an average design flow of ten thousand gallons per day or greater, shall submit the following information as part of a permit application in addition to the information required in paragraphs (A) to (E) of this rule to demonstrate financial, legal and technical ability to own and operate a disposal system:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	A1	shall	A permit to install or plan approval shall be issued on the basis of the information appearing in the application or information gathered by or furnished to the Ohio environmental protection agency.	6111.03	State general authority - 6111.03 (G)	no	no	yes
3745-42-04	A2	shall	In deciding whether to approve or deny a permit to install or plan approval, the director shall take into consideration the following factors:	6111.03	State general authority - 6111.03 (G)	no	no	yes
3745-42-04	A2a	shall	Whether the installation or modification and operation of the disposal system shall do the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	A3	shall not	(3)Incomplete permit to install or plan approval applications, in regards to application requirements in rule 3745-1-05 of the Administrative Code and this chapter, shall not be considered.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	A4	shall	Plans submitted under this chapter shall be in accordance with generally accepted engineering standards or guidance for design and operation to ensure the protection of human health or the environment.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	A6	shall	Within one hundred eighty days after a completed application is filed, the director shall issue or propose to issue or deny a permit to install or plan approval.	6111.03	State general authority - 6111.03 (G)	no	no	yes
3745-42-04	B2b	shall	At a minimum, said qualified official or employee of the political subdivision or investor-owned public utility shall be a registered professional engineer licensed to practice engineering in the state of Ohio.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	B2c	shall	In performing the review of the permit to install application and plans as specified by the agreement, the qualified official or employee of the political subdivision or investor-owned public utility shall, at a minimum, review the permit to install application and plans for conformance with all applicable laws and generally accepted engineering standards referenced in paragraph (A)(4) of this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	B2d	shall	Under such agreement, the director shall outline the various terms of the authorized review.	6111.03	State general authority - 6111.03 (G)	no	no	yes

3745-42-04	B2e	shall	Under such agreement, the fees calculated in accordance with division (B) of section 3745.11 of the Revised Code and a copy of the actual permit to install application shall be forwarded to Ohio EPA upon receipt by the political subdivision or investor-owned public utility.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	B2f	shall	Under such agreement, the director shall issue the appropriate action after consideration of the recommendation signed by the qualified official or employee of the political subdivision or investor-owned public utility upon submission to the director of the following:	6111.03	State general authority - 6111.03 (G)	no	no	yes
3745-42-04	B2g	shall	In the event that a project reviewed under such an agreement is appealed to the environmental review appeals commission or an Ohio EPA hearing examiner, the political subdivision or investor-owned public utility responsible for review shall provide necessary technical support to the director.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-04	Table 4-1	shall	Identification of projects for which the Ohio EPA division of surface water shall coordinate with the Ohio EPA divisions of materials and waste management (DMWM), air pollution control (DAPC) and drinking and ground waters, ground water section (DDAGW) and their respective successors.	6111.03	State general authority - 6111.03 (G)	no	no	yes
3745-42-04	Comment	require	[Comment: Unless the director has so authorized the municipal corporation, county, or special district in writing to act on the agency's behalf, a permit to install from Ohio EPA is required for industrial user indirect discharges unless the project meets an exemption in rule 3745-42-02 of the Administrative Code.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A	shall	Except as provided in paragraphs (A)(1) to (A)(6) of this rule, the minimum design flows and waste strengths in table A-1 of this rule shall be used to design a treatment works sized for one hundred thousand gallons per day or less.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A	shall	The design flow and the waste strength shall be based on the existing and proposed services at the facility, and the justification for the proposed design flow and the proposed waste strength shall be submitted with the permit to install application.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A	shall	The design flow and the waste strength shall be based on the existing and proposed services at the facility, and the justification for the proposed design flow and the proposed waste strength shall be submitted with the permit to install application.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A1a	shall	The flow monitoring data shall be submitted with the permit to install application and shall conform to either of the following:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A1a	shall	The flow monitoring data shall be submitted with the permit to install application and shall conform to either of the following:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A1b	shall	For facilities that operate year-round, at least twelve months of flow monitoring data shall be provided.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A1b	shall	For seasonal facilities, flow monitoring data shall be provided for the entire operational period within a calendar year.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A2	shall	The computer flow modeling data shall be submitted with the permit to install application.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A3	shall	The values in table A-1 shall be used to determine the storage volume needed and the design flow of the treatment units following the storage facility.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A3	shall	The flow equalization data shall be submitted with the permit to install application.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A4	shall	Any information regarding the potential impacts to upstream sewers shall be submitted with the permit to install application.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A5	shall	Sampling data shall be provided that is indicative of normal operations.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A5	shall	For seasonal operations, the data shall be reflective of the time when the facility is most used.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A5	shall	This data shall include the following: daily raw data, seven-day averages and thirty-day averages.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no
3745-42-05	A5	shall	This shall be submitted along with the permit to install application and, either of the following:	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)	no	no	no

3745-42-05	A6b	shall	As a condition of the permit application, the applicant shall submit data or necessary information verifying that appropriate low flow fixtures or water saving devices are being installed throughout the operation.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	A6b	shall	Flows may be reduced through the scenarios in this paragraph, and the wastewater treatment works design shall accommodate organic and solids loading established utilizing the original design flows contained in table A-1.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note H	shall	Weddings and funerals shall be counted as services.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note K	shall	Higher flows shall be estimated when showers are available.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note O	must	If a daycare is present, the flow requirements for a daycare facility must be included.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Table A-1	require	Sewer connection required; contact district office	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note C	require	Aeration tanks for these systems require forty-eight-hour detention periods. Garbage grinders not permitted.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note D	require	Truck parking areas will require consideration for treatment of runoff at large truck stops.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note G	require	Year round disinfection of all wastewater may be required before discharge to waters of the state or to any other surface or subsurface disposal systems.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note L	require	Deviating from this estimated design flow will require the director's approval, prior to applicant submitting the permit to install.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note P	require	An external grease trap is required for facilities with food service for soil based treatment systems.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note U	require	Sewer connection is required for a car wash. Please contact your district office.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note I	prohibit	Non-domestic or industrial wastes are prohibited from being discharged to soil based treatment systems.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-05	Note N	prohibit	Pool de-watering is prohibited from discharging to soil based treatment systems.	6111.03, 6111.04, 6111.44, 6111.45, 6111.46	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C2	shall	Each person who wishes to obtain coverage under a general permit to install in order to install a disposal system shall submit to the director, or an authorized representative, a notice of intent to comply with the general permit to install, in accordance with the deadlines specified in the general permit to install.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C2	shall	A notice of intent shall meet the following requirements:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C2eiii	shall	The latitude and longitude coordinates shall be provided as: degrees minutes seconds, using two digits in each space.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C3a	shall	Shall be effective for a fixed term not to exceed five years.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C3b	shall	Shall be automatically terminated unless construction is initiated within eighteen months after the date the director grants coverage under the general permit to install.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C3c	shall not	Extensions of coverage under the general permit to install shall not exceed twelve months.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	E	shall	A general permit to install shall be issued, modified, revoked or denied, or may be appealed, in accordance with the provisions of the rules of procedure of Ohio EPA, Chapters 3745-47 and 3745-49 of the Administrative Code.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	C2	require	The director may require any person who has submitted a notice of intent to obtain coverage under an individual or alternative general permit to install.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	G	require	The director may require any person who has requested or obtained coverage under a general permit to install to apply for and obtain the following:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	G1	require	Circumstances where the director may require an individual permit to install include, but are not limited to, the following:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-06	G2	require	Circumstances where the director may require alternative general permit coverage include, but are not limited to, the following:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	B2	shall	Except as provided in paragraph (C) of this rule, a disposal system shall meet best available technology criteria to be approved.	6111.03	State general authority - 6111.03 (G)		no	no	no

3745-42-07	C1	shall	The petitioner shall also have the burden of demonstrating to the satisfaction of the director that the alternative to the sanitary sewer connection will not adversely affect human health or the environment.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	C2	shall	A petition for exemption shall be submitted in writing and signed in accordance with rule 3745-42-03 of the Administrative Code, prior to submittal of any NPDES permit, permit to install or plan approval applications for the alternative disposal system, and shall include, at a minimum, the following:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	C2	shall	A petition for exemption shall be submitted in writing and signed in accordance with rule 3745-42-03 of the Administrative Code, prior to submittal of any NPDES permit, permit to install or plan approval applications for the alternative disposal system, and shall include, at a minimum, the following:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	C3	shall not	An incomplete petition shall not be considered.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	C3	shall	Any petitioner who submits an incomplete petition shall be notified within thirty days of receipt of the application of the nature of deficiency and of the director's refusal to consider the petition until the deficiency is corrected.	6111.03	State general authority - 6111.03 (G)		no	no	yes
3745-42-07	C3	shall	Failure to correct the deficiency within thirty days of notice shall result in denial of the petition.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	C4	shall	The director shall grant or deny the petition for exemption by order within ninety days of the date on which a complete petition for exemption is received.	6111.03	State general authority - 6111.03 (G)		no	no	yes
3745-42-07	D1	shall	Connection into existing publicly owned or regional sanitary sewers shall be required for the disposal of sewage when said sewers are accessible and available.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D1	shall	Accessible and available shall be determined as follows:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D2	shall	Installation of new centralized collection and treatment shall be required for the disposal of sewage when the cumulative design flow of sewage for a proposed larger common plan of development or sale is greater than twenty-five thousand gallons per day if sanitary sewers are not accessible or available as per paragraph (D)(1) of this rule.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D5	shall	Notwithstanding the issuance or non-issuance of a permit to install or plan approval for a non publicly owned or non regional disposal system treating sewage, whenever a publicly owned or regional sanitary sewer system becomes accessible and available, the permittee shall properly abandon the disposal system and connect into the publicly owned or regional sanitary sewer system and properly close the disposal system.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D5	shall	Connection into the publicly owned or regional sanitary sewer system shall be made within three years of accessibility and availability, unless an alternative time frame is authorized by the director, considering the age of the disposal system, level of treatment being provided, economic hardship, and compliance with applicable laws.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D6	shall	The director shall specify a time frame for connection.	6111.03	State general authority - 6111.03 (G)		no	no	yes
3745-42-07	E	shall	As applicable, the applicant shall include the following items in the disposal system design or treatment technology selection:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	B2	require	[Comment: A brief description of how a project achieves best available technology is required to be submitted as part of a permit to install application or plan approval in accordance with rule 3745-42-03 of the Administrative Code.]	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	C2d	require	Any additional information as the director may require to protect human health or the environment.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D1	require	Connection into existing publicly owned or regional sanitary sewers shall be required for the disposal of sewage when said sewers are accessible and available.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-07	D1c	require	[Comment: For example, if an existing business is located two hundred and forty feet from the corner of the building to the sanitary sewer right-of-way, the business will be required to connect to the sewer.]	6111.03	State general authority - 6111.03 (G)		no	no	no

3745-42-07	D1d	require	[Comment: For example, if a new business is proposed on a single lot, and the edge of the property line is two hundred and ninety feet from the existing sanitary sewer right-of-way, the business will be required to connect to the sewer.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	D1e	require	[Comment: For example, if phase one of a proposed commercial park will contain five structures, and phase two of the project, that will not be constructed for six years, will contain six structures, and the sanitary sewer right-of-way is one thousand four hundred feet away from the nearest property line in phase one of the development, the commercial park will be required to connect since two hundred feet per structure multiplied by eleven structures equals two thousand two hundred feet, which is greater than one thousand four hundred feet.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	D1e	require	[Comment: ... It should be noted that even if phase two is constructed first, connection to sewers would be required since the larger plan of development results in a structure being located within two thousand two hundred feet.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	D2	require	(2)Installation of new centralized collection and treatment shall be required for the disposal of sewage when the cumulative design flow of sewage for a proposed larger common plan of development or sale is greater than twenty-five thousand gallons per day if sanitary sewers are not accessible or available as per paragraph (D)(1) of this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	D2	require	This requirement does not preclude multiple or "cluster" type systems.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	D4	require	[Comment: Chapter 6111. of the Revised Code requires the director to give consideration to the technical feasibility and economic reasonableness in the issuance of the order.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	D6	require	(6)Notwithstanding the issuance or non-issuance of a permit to install or plan approval for a disposal system treating industrial waste or other waste or industrial waste or other waste and sewage, whenever a publicly owned or regional sanitary sewer system becomes accessible and available, the director may require the disposal system to be properly abandoned and connected into the publicly owned or regional sanitary sewer system and properly modify or close the disposal system and may consider factors including, but not limited to, compatibility of waste, treatability of waste, volume of waste to be disposed, economic hardship and compliance with other applicable laws.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	E3	require	Design criteria required under this chapter.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	E4	require	Industrial waste pre-treatment standards required under Chapters 3745-3 and 3745-36 of the Administrative Code.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-07	E5	require	Treatment standards for sewage sludge required under Chapter 3745-40 of the Administrative Code.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	A	shall	Except as provided in paragraphs (B) to (E) of this rule, the minimum isolation distances in table A-1 of this rule shall be maintained.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	A	shall	[Comment: In the case of any reference to any building, the measurement shall be taken from the outside wall of the building. In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station. In the case of any reference to an earthen lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the earthen impoundment.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	A	shall	[Comment: In the case of any reference to any building, the measurement shall be taken from the outside wall of the building. In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station. In the case of any reference to an earthen lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the earthen impoundment.]	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-08	A	shall	[Comment: In the case of any reference to any building, the measurement shall be taken from the outside wall of the building. In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station. In the case of any reference to an earthen lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the earthen impoundment.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	B1	shall	Where a greater isolation distance requirement exists as a condition of a permit, the greater isolation distance requirement shall prevail.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	C1b	shall	All comments shall be forwarded to the director or an authorized representative for consideration.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	C2c	shall	All comments shall be forwarded to the director or an authorized representative for their consideration.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	Table A-1	require	Minimum isolation distance required from an occupied building	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	Table A-1	require	Minimum isolation distance required from surface waters of the state	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	B	require	After considering either the potential impacts to neighboring buildings or prevailing wind directions, the director may increase an isolation distance set forth in table A-1 of this rule or require mitigative measures such as additional freeboard, landscape mounds, fencing, trees or other means to reduce the impacts in the following situations:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	D	require	To protect public health or the environment from a significant threat, the director may require other mitigative measures, such as additional freeboard, landscape mounds, fencing, trees or other means to reduce the impacts when smaller isolation distances are allowed.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	E	require	For any disposal system constructed prior to September 1, 2009, to protect public health or the environment, the director may require other mitigative measures when isolation distances smaller than those listed in table A-1 of this rule exist.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-08	E	require	For example, mitigative measures could be required as a result of documented odor complaints or a breach or overflow that caused harm to life, health or property.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	B2b	shall not	[Comment: Some portable units include individual storage tanks for the discharge from sinks and the discharge from toilets. The total additive volume of both tanks shall not exceed five hundred gallons.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	C1	shall not	A sewage holding tank for existing onsite sewage disposal system or other unauthorized discharging system prohibition. Except as provided in paragraphs (C)(3) to (C)(4)(d)(iii) of this rule, a sewage holding tank shall not be installed to replace an existing onsite sewage disposal system or other unauthorized discharging system except in the following instances:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	C2	shall not	Except as provided in paragraphs (C)(2)(a) to (C)(2)(c) of this rule and paragraphs (C)(3) to (C)(4)(d)(iii) of this rule, a new sewage holding tank shall not be installed to serve a building that is currently not served by a disposal system except in the following instances:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	C3	shall	The director may allow a sewage holding tank, provided it is located within a recreational vehicle park, a recreation camp, a combined park-camp, or a temporary park-camp for which Ohio EPA shall adopt rules under section 6111.46 of the Revised Code and is designed in accordance with this rule.	6111.03	State general authority - 6111.03 (G)	no	no	yes
3745-42-11	E1a	shall not	Except as provided in paragraphs (B) and (D) of this rule, a person shall not cause, permit or allow the installation or modification of a holding tank without first obtaining a permit to install from the director.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1b	shall	For any holding tank to be used as a replacement for an existing sewage disposal system, the applicant shall demonstrate to the director's satisfaction that connecting to a sanitary sewer or constructing an onsite sewage disposal system is not feasible.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1b	shall	At a minimum, the applicant shall submit the following information to the director or an authorized representative for consideration and determination:	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-11	E1bviii	shall	In addition to the information in the general soil survey, the location of any soil delineations and the location and number of soil probes, pits or borings necessary to describe the soil conditions shall be determined by a professional soil scientist for the site.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1bviii	shall	The soil delineations, soil probes, soil pits or soil borings shall include the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1bviiic	shall	In areas where glacial till and fractured bedrock substratum soils are in close proximity, the soil investigation shall be done to a depth of at least fifty inches or until bedrock is encountered.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E2a	shall	Except as provided in paragraph (E)(2)(b) of this rule, for any holding tank that will contain industrial waste, the proposed holding tank shall be used exclusively to collect, hold or store industrial waste.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E3a	shall not	For any sewage holding tank installed after September 1, 2009, a person shall not cause, permit or allow the operation of a holding tank without first obtaining a holding tank management plan in accordance with paragraph (G) of this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E3bii	shall	When any holding tank management plan is submitted in the absence of a permit to install, such as a renewal or as a result of noncompliance in accordance with paragraph (J) of this rule, the holding tank management plan application fee shall apply.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1	shall	For any in-ground or partially in-ground holding tank, an applicant shall, at a minimum, incorporate the following into the applications and into the design and operation of the holding tank and related equipment:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1a	shall	The inner surface or the lining of the holding tank shall be compatible with the sewage or industrial waste that the tank is proposed to hold.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1b	shall not	The holding tank shall not leak from its sides, bottom, seams or top.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1c	shall	The holding tank shall meet or exceed H 20 loading if the tank is completely below ground.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1d	shall	The holding tank foundation shall be capable of supporting the holding tank when the tank is full of sewage or industrial waste and shall be capable of preventing uplift of the tank when the tank is empty.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1d	shall	The holding tank foundation shall be capable of supporting the holding tank when the tank is full of sewage or industrial waste and shall be capable of preventing uplift of the tank when the tank is empty.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1e	shall	The holding tank shall be designed and constructed without storm water connections and to prevent inflow and infiltration from entering the holding tank.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1f	shall	For any holding tank connected to a water supply, the tank shall be equipped with the following features:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1fi	shall	The alarm system shall be activated when the level of sewage or industrial waste reaches seventy-five per cent of the holding tank capacity and the alarm signal shall be transmitted to a staffed location or clearly visible to a staffed location.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1fi	shall	The alarm system shall be activated when the level of sewage or industrial waste reaches seventy-five per cent of the holding tank capacity and the alarm signal shall be transmitted to a staffed location or clearly visible to a staffed location.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1g	shall	The tank shall be labeled, or a legible sign shall be placed immediately adjacent to the holding tank, with the words "Non-Hazardous Sewage" or "Non-Hazardous Industrial Waste," whichever term applies to the tank in question.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1g	shall	The tank shall be labeled, or a legible sign shall be placed immediately adjacent to the holding tank, with the words "Non-Hazardous Sewage" or "Non-Hazardous Industrial Waste," whichever term applies to the tank in question.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1h	shall	Signs that direct persons to notify the Ohio environmental protection agency's spill hotline (1-800-282-9378) in an event of a release shall be placed in clearly visible locations around the tank.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1i	shall	The application shall include an operation and maintenance plan that, at a minimum, contains all of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-11	F1j	shall	For any in-ground or partially in-ground holding tank that is designed to contain, store or hold sewage, the holding tank shall meet the following limitations:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1ji	shall not	Unless otherwise determined by the director, the maximum allowable design flow into the tank shall not exceed six hundred gallons per day.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1jii	shall	The design of the tank shall provide for a minimum storage capacity of ten times the daily design flow.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F1jiii	shall	The tank volume shall be greater than or equal to one thousand gallons and less than or equal to seven thousand five hundred gallons.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2	shall	For any above-ground holding tank, an applicant shall, at a minimum, incorporate the following into the applications and into the design and operation of the holding tank and related equipment:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2a	shall	The inner surface or the lining of the holding tank shall be compatible with the sewage or industrial waste that the tank is holding.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2b	shall	The holding tank shall be equipped with the following features:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2bi	shall	The alarm system shall be activated when the level of sewage or industrial waste reaches seventy-five per cent of the holding tank capacity and the alarm signal shall be transmitted to a staffed location or clearly visible to a staffed location.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2bi	shall	The alarm system shall be activated when the level of sewage or industrial waste reaches seventy-five per cent of the holding tank capacity and the alarm signal shall be transmitted to a staffed location or clearly visible to a staffed location.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2c	shall	The tank shall be labeled, or a legible sign shall be placed immediately adjacent to the holding tank, with the words "Non-Hazardous Sewage" or "Non-Hazardous Industrial Waste," whichever term applies to the tank in question.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2c	shall	The tank shall be labeled, or a legible sign shall be placed immediately adjacent to the holding tank, with the words "Non-Hazardous Sewage" or "Non-Hazardous Industrial Waste," whichever term applies to the tank in question.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2d	shall	Signs that direct persons to notify the Ohio environmental protection agency's spill hotline (1-800-282-9378) in an event of a release shall be placed in clearly visible locations around the tank.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2e	shall	The application shall include an operation and maintenance plan that, at a minimum, contains all of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2f	shall	In addition, above-ground holding tanks that are designed to contain, store or hold sewage shall meet the following limitations:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2fi	shall not	Unless otherwise determined by the director, the maximum allowable design flow into the tank shall not exceed six hundred gallons per day.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2fii	shall	The design of the tank shall provide for a minimum storage capacity of ten times the daily design flow.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F2fiii	shall	The tank volume shall be greater than or equal to one thousand gallons and less than or equal to seven thousand five hundred gallons.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F3	shall	Except as provided in paragraph (F)(3)(d) of this rule, secondary containment, as described in this rule, shall be provided for above-ground, in-ground or partially in-ground holding tanks that contain, store or hold industrial waste.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F3a	shall	The secondary containment system shall be designed, installed, and operated to prevent any migration of waste from the tank to the soil, ground water, or surface water.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F3a	shall	The secondary containment system shall be capable of detecting the release of any waste from the tank, and collecting such released waste until the collected waste is removed.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F3b	shall	Secondary containment system for holding tank containing industrial waste shall be, at a minimum, all of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-11	F3biv	shall	Spilled or leaked waste and accumulated precipitation shall be removed from the secondary containment system within twenty-four hours of becoming aware of the spill or leak, or as soon as possible to prevent harm to human health or the environment, if removal of the released waste or accumulated precipitation cannot be accomplished within twenty-four hours.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	F3c	shall	Secondary containment for holding tanks containing industrial waste shall include one or more of the following devices:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G2	shall	For any sewage holding tank installed after September 1, 2009 and except as provided in paragraphs (B) and (G)(3) of this rule, no person shall install or operate a sewage holding tank without first obtaining a permit to install and holding tank management plan approval from the director.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G2a	shall	A renewal holding tank management plan shall be submitted to Ohio EPA at least six months prior to expiration of any existing holding tank management plan.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G2ai	shall	If a person submits a renewal holding tank management plan six months prior to expiration of the existing plan and Ohio EPA has not approved the new holding tank management plan prior to the expiration of the existing holding tank management plan, the existing holding tank management plan shall be effective until the new holding tank management plan is acted upon by the director.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G2b	shall	Application shall be on forms approved by the director.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G2c	shall	Application shall be in narrative form and shall include the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G2c	shall	Application shall be in narrative form and shall include the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	G3a	shall	The sewage holding tank shall be protective of public health and the environment.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	H	shall	Any person who owns or operates a holding tank shall keep the following records at the facility for the time specified and make these records available to the director, or an authorized representative, within a reasonable time upon request:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	H3	shall	The records shall include, at a minimum, the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	I1	shall	For any above-ground holding tank, the owner or operator of the tank shall perform all of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	I2	shall	For any in-ground or partially in-ground holding tank, the owner or operator of the tank shall perform all of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	I3	shall	The owner or operator of the holding tank shall notify the director or an authorized representative of the following within thirty days of the holding tank decommissioning:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	J1	shall	A holding tank shall be designed, operated and maintained in accordance with this rule.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	B	require	A permit to install or management plan is not required for any of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	D	require	A permit to install is not required for the modification of a holding tank, when the modification will do either of the following:	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	D	require	[Comment: Regardless of a permit to install exemption, the director may require a holding tank management plan, in accordance with paragraphs (G)(3) to (G)(3)(b)(iii) of this rule.]	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1v	require	Demonstration that a sewage disposal system is required for the building because the state or local plumbing code requires that restrooms or running water be provided for the building.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1v	require	Demonstration that a sewage disposal system is required for the building because the state or local plumbing code requires that restrooms or running water be provided for the building.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E1viic	require	To protect public health or the environment, the director or authorized representative may require deeper soil probes, soil pits or soil borings.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E3bi	require	When a holding tank management plan is part of the permit to install application, the only application fee required is the permit to install application fee.	6111.03	State general authority - 6111.03 (G)	no	no	no
3745-42-11	E3bi	require	No separate application fee or director's action is required for a holding tank management plan.	6111.03	State general authority - 6111.03 (G)	no	no	no

3745-42-11	E3biii	require	When a holding tank management plan application is submitted as a termination of the holding tank management plan, no fee is required.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	F1iiv	require	As applicable, a plan for the operation and maintenance of the equipment required in paragraph (F)(1)(f) of this rule	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	F2eiv	require	As applicable, a plan for the operation and maintenance of the equipment required in paragraph (F)(2)(b) of this rule.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	F3	require	Secondary containment is not required for above-ground, in-ground or partially in-ground tanks that only contain, store or hold sewage unless the director or an authorized representative determines that secondary containment for such tanks is needed to protect human health or the environment.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	F3d	require	Secondary containment for holding tanks as specified in this rule is not required if the following criteria are met:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	G1	require	The director may deny any sewage holding tank management plan application not in compliance with this chapter and require the submittal of a new management plan application, including all applicable fees, to be submitted to the director or an authorized representative, in accordance with the director's notification.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	G3b	require	The director may require any person that operates or owns a sewage holding tank to submit a holding tank management plan in accordance with the director's notification and paragraphs (G)(2) to (G)(2)(c)(vii) of this rule, where the director or an authorized representative has determined any of the following:	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-11	J2	require	The director may deny any holding tank permit to install or management plan application not in compliance with this rule and require the submittal of a new permit to install or management plan application, including all applicable fees, to be submitted to Ohio EPA within thirty days of the final action.	6111.03	State general authority - 6111.03 (G)		no	no	no
3745-42-13	A	shall	For the purposes of this rule, a liquid industrial waste agronomic benefit shall provide for organic or nutrient enrichment of soil for plant growth.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C2	shall	No person shall land apply treated sewage or liquid industrial wastes as follows:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C4	shall	No person shall operate a land application system without an approved land application management plan.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C5	shall	No person shall operate a discharging land application system without an approved NPDES permit and land application management plan	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D1	shall	(1)A land application system shall be designed, operated and maintained in accordance with this chapter and all other applicable rules and laws.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D2	shall	(2)Any land application management plan application shall be on forms specified by the director and shall include such additional information as the director deems necessary.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D2	shall	(2)Any land application management plan application shall be on forms specified by the director and shall include such additional information as the director deems necessary.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D3	shall	No person shall allow the discharge of treated sewage or liquid industrial waste to waters of the state from a land application system without first obtaining an NPDES permit pursuant to Chapter 3745-33 of the Administrative Code.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D4	shall	Any person proposing to use a land application system to treat sewage from two or more homes or to treat ten thousand gallons per day or greater of sewage or liquid industrial waste, and not proposing to contract with a public entity such as a county or municipality to operate the disposal system, shall submit the following information to demonstrate financial, legal and technical capability to own and operate a disposal system:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D4fii	shall	At a minimum, the financial plan shall include the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E1	shall	A land application system shall be protective of public health and the environment.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E2a	shall	A land application system shall be operated in accordance with an approved land application management plan.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E3	shall	Land application shall only occur at times identified in the approved land application management plan.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no

3745-42-13	E4	shall	Treated sewage or liquid industrial waste shall be land applied so as to minimize direct human contact, and the potential for creating aerosols and mist.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E5	shall	Signs shall be installed at the entrance to each land application site, to inform the public that the land is used for land application of treated sewage or liquid industrial waste.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E5	shall	At least one sign shall be posted at each field or site.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E5	shall	Each sign shall include notification of the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E6	shall	No treated sewage or liquid industrial waste shall be land applied within the emergency management zone of a public water system using surface water or within one thousand five hundred feet of any drinking water intake, whichever is greater unless the treated sewage or liquid industrial waste meets the water quality standards established for the public water supply use designation under Chapter 3745-1 of the Administrative Code.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7	shall	No person shall install a land application system after July 1, 2007 without first obtaining the following	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7a	shall	A land application management plan shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7ai	shall	A new land application management plan shall be submitted to Ohio EPA at least six months prior to expiration of any existing land application management plan.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7ai	shall	If a person submits a new land application management plan six months prior to expiration of the existing plan and Ohio EPA has not approved the new land application management plan prior to the expiration of the existing land application management plan, the existing land application management plan shall be effective until the new land application management plan is approved by the director.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7aii	shall	Be in narrative form and shall include the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7aiif	shall	The land application rates shall ensure that no runoff occurs into surface waters of the state.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7aiik	shall	A written contingency plan to protect human health and the environment at down gradient receptors shall be prepared.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7aiik	shall	At a minimum, the contingency plan shall include the following response actions:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7b	shall	[Comment: All treatment works that discharge are subject to water quality standards rules, Chapter 3745-1 of the Administrative Code, and shall be processed according to the procedures in rule 3745-1-05 of the Administrative Code (antidegradation), Chapter 3745-2 of the Administrative Code, Chapter 3745-33 of the Administrative Code, Chapter 3745-42 of the Administrative Code and Chapter 3745-49 of the Administrative Code.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E8	shall	A land application system installed prior to July 1, 2007 shall be protective of public health and the environment.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1	shall	The permit to install application for any land application system with a design flow less than ten thousand gallons per day and land application rates less than or equal to twelve inches per acre per year shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1b	shall	The site investigation report shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1biii	shall	This description shall include a map that is based on available records and any information obtained from site visits. The map shall locate the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1biii	shall	The map shall locate the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1biv	shall	The hydrogeological site investigation report shall be developed in accordance with paragraph (M) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1bvie	shall	If soil probes, soil pits or soil borings are required to characterize the site, they shall be done in accordance with paragraph (N) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1c	shall	In addition to the other requirements of this chapter, the detailed engineering plans shall also include a site plan that shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1c	shall	In addition to the other requirements of this chapter, the detailed engineering plans shall also include a site plan that shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no

3745-42-13	F1cii	shall	[Comment: Isolation distances. In the case of any reference to a building, the measurement shall be taken from the outside wall of the building. In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station. In the case of any reference to a lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the impoundment.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F1cii	shall	[Comment: Isolation distances. In the case of any reference to a building, the measurement shall be taken from the outside wall of the building. In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station. In the case of any reference to a lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the impoundment.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F1cii	shall	[Comment: Isolation distances. In the case of any reference to a building, the measurement shall be taken from the outside wall of the building. In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station. In the case of any reference to a lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the impoundment.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F1e	shall	If applicable, include a treatment works operation and maintenance plan. If the permit to install is for a treatment works as part of the land application system, the operation and maintenance plan shall address the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F1eiv	shall	[Comment: The ultimate goal of the plan shall be to ensure the integrity of the liner system that will in turn protect the underlying ground water resources.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2	shall	A permit to install application for any land application system with a design flow less than ten thousand gallons per day and land application rates greater than twelve inches per acre per year, shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2b	shall	A hydraulic and nutrient balance that supports the proposed size of land needed for land application shall be submitted with the permit to install.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2b	shall	The hydraulic and nutrient balance shall demonstrate that the phosphorus and nitrogen loading rates will not adversely impact surface or ground waters.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2b	shall	The application shall demonstrate the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2bi	shall	The concentration of nitrate-nitrogen in the ground water below land on which treated sewage or liquid industrial waste has been applied shall at all times be less than ten milligrams per liter.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2bii	shall	The soils shall be tested for phosphorus levels.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2bii	shall	Samples shall be representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2bii	shall	A sample depth of 8 inches shall be used unless justified otherwise in the plan. The Bray-Kurtz P1 extraction or Mehlich 3 extraction shall be used to determine the background level unless an alternative method is approved by the director.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2bii	shall	A sample depth of 8 inches shall be used unless justified otherwise in the plan. The Bray-Kurtz P1 extraction or Mehlich 3 extraction shall be used to determine the background level unless an alternative method is approved by the director.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F2bii	shall	Unless otherwise deemed acceptable by the director, the restriction of phosphorus application shall be based on the phosphorus index method, as developed by the natural resource conservation service in Ohio.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no

3745-42-13	F2bii	shall not	For soils with soil phosphorus test results greater than one hundred fifty parts per million (three hundred pounds per acre) Bray-Kurtz P1 extraction or one hundred seventy parts per million (three hundred forty pounds per acre) Mehlich 3 extraction, the director shall not approve land application of treated sewage or liquid industrial waste unless the permit to install demonstrates to the director, using a phosphorus index, that there is a low relative risk of phosphorus movement to waters of the state at the land application site.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	yes
3745-42-13	F3	shall	A permit to install application for any land application system with a design flow greater than or equal to ten thousand gallons per day and land application rates less than or equal to twelve inches per acre per year shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	F4	shall	A permit to install application for any land application system with a design flow greater than ten thousand gallons per day and land application rates greater than twelve inches per acre per year shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	G	shall	Except where specific design criteria or methodologies are required by this rule, generally accepted design standards and methodologies shall be used to design the treatment works, including any treatment lagoon, or the sewerage system that is part of any land application system.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H1	shall	A storage facility shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H1a	shall	[Comment: Isolation distances. In the case of any reference to a building, the measurement shall be taken from the outside wall of the building.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H1a comment	shall	In the case of any reference to a treatment works or a component of the treatment works or a pump station, the measurement shall be taken from the closest point on the perimeter of the treatment works, the component of the treatment works, or the pump station.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H1a comment	shall	In the case of any reference to a lagoon or storage facility, the measurement shall be taken from the outer bank or the toe of the impoundment.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H3	shall	A storage facility shall be designed with adequate storage capacity to prevent a discharge to surface waters, except as permitted by an NPDES permit.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H3	shall	The minimum storage requirements in table H-2 of this rule shall be met.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H3a	shall	The storage volume shall be calculated using the disposal system design flow and shall consider all hydraulic inputs and outputs, including the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H3a	shall	The storage volume shall be calculated using the disposal system design flow and shall consider all hydraulic inputs and outputs, including the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H4	shall	Freeboard requirements for storage facilities: the freeboard requirements in table H-3 of this rule shall be met.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H5	shall	Except as provided in paragraphs (H)(16) and (H)(17) of this rule, the storage facility shall have a recompacted clay liner designed in accordance the following unless otherwise specified in the detailed engineering plans approved by the director:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H6	shall	No soil material used in the liner shall be placed or recompacted during weather conditions, such as freezing temperatures or rain, that would interfere with adequate compaction or control of moisture content.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H7	shall	Soil material used in the liner shall be placed in six inch to eight inch loose lifts at a moisture content between zero per cent and four per cent above optimum moisture content as determined by standard laboratory proctor.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	H8	shall	Soil material used in the liner shall be recompacted by using standard engineering compaction methods and recompacted to a minimum compaction rate of ninety-five per cent of standard dry density as determined by ASTM D698 or greater as required to achieve 1 x 10 ⁻⁷ centimeters per second maximum permeability.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no

3745-42-13	H8	shall	The most representative moisture-density curve shall be used to determine compaction rates.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H9	shall	Compacted soil material used in the liner shall be tested for density and moisture content at a rate of one test per lift, with a minimum of one test for any day that soil material is compacted.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H10	shall	When a density or moisture content test is not conducted in compliance with the approved detailed engineering plans or the terms and conditions of the permit to install, each lift shall be scarified and the moisture content adjusted and the soils recompacted for the area that extends from the location of the failed test to one-half the distance to the location of the nearest passed test, in all directions.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H10	shall	The recompacted area shall then be retested for compliance.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H11	shall	The results of density and moisture content testing shall be submitted to Ohio EPA.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H12	shall	Soils used for the liner shall have from fifteen to thirty per cent clay content and shall be classified as CL or SC by the unified classification system (ASTM designation D2487).	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H12	shall	Soils used for the liner shall have from fifteen to thirty per cent clay content and shall be classified as CL or SC by the unified classification system (ASTM designation D2487).	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H13	shall	When the classification of the proposed liner material can not be determined in accordance with the unified classification system, hydraulic conductivity tests shall be performed on the proposed lining material to confirm its classification and ensure the proposed liner will be in accordance with paragraph (H)(5) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H14	shall	There shall be a minimum of three feet of fine-grained soil over fractured rock outcrops or other highly permeable material, which may include the recompacted liner.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H15	shall	The thickness of the recompacted clay liner shall be in accordance with table H-4 of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H16	shall	If a synthetic liner is used in lieu of a recompacted clay liner, the liner shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H17	shall	If the storage facility is constructed of reinforced concrete, the concrete shall be, at a minimum, five inches thick and include non-metallic water stops for all joints.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	I1	shall	The design of any land application spray distribution system shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	I1b	shall	The diameter of the sprinkler nozzle used as part of the land application system shall be at least three times the size of any suspended solids in the treated sewage or liquid industrial waste being sprayed.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	I2	shall	If soil probes, soil pits or soil borings are required to characterize the site, the soil probes, soil pits or soil borings shall be done in accordance with paragraph (N) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	J1	shall	Except at times identified in the approved land application management plan provided in paragraphs (J)(5) to (J)(7) of this rule, the location of the land application area shall maintain the minimum isolation distances in table J-1 of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	J2	shall	In addition to the requirements of paragraphs (C) and (J)(1) of this rule, no person shall land apply class A treated sewage or liquid industrial waste as follows:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no

3745-42-13	J3	shall	In addition to paragraphs (C), (J)(1), and (J)(2)(c) to (J)(2)(e) of this rule, no person shall land apply class B treated sewage or liquid industrial waste as follows:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	J4	shall	In addition to paragraphs (C), (J)(1), (J)(2)(c) to (J)(2)(e), and (J)(3)(b) to (J)(3)(f) of this rule, no person shall land apply class C treated sewage or liquid industrial waste except at Ohio EPA approved sites.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	J5	shall not	The siting criteria and the isolation distance requirements of this paragraph shall not apply to occupied buildings if the person who will land apply treated sewage or liquid industrial waste obtains a land application contract from each owner of a neighboring occupied building located within the siting distances set forth in this rule and includes a copy of the land application contract with the permit to install application.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	J5	shall	The land application contract shall state that:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	J6	shall	The land application contract shall state that these property owners are aware of, and have no objection to, the proposed land application of treated sewage or liquid industrial waste within fifty feet of their property lines.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K1	shall	A land application system shall be designed in accordance with table K-1 of this rule and shall have a land application management plan that contains effluent limits, which are developed and monitored in accordance with table K-1 of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K2	shall	In addition to paragraph (K)(1) of this rule, any land application system that will discharge to waters of the state shall have an approved NPDES permit that contains, where applicable, internal and final effluent limits as follows:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K2a	shall	The internal limits shall be developed and monitored in accordance with table K-1 of this rule and be applied at the point the effluent leaves the treatment works, prior to storage, or prior to land application if no storage is provided.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K2b	shall	The final effluent limits shall be developed in accordance with best available demonstrated control technology criteria, as set forth in table 5-1 of rule 3745-1-05 of the Administrative Code or water quality based effluent limits in accordance with Chapter 3745-1 of the Administrative Code, whichever is more stringent.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K2 footnote	shall	All wastewater treatment works shall use E. coli as the indicator organism unless fecal coliform is specified by their existing NPDES permit.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K3 footnote	shall	All wastewater treatment works shall use E. coli as the indicator organism unless fecal coliform is specified by their existing NPDES permit.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K4 footnote	shall	Class C treated sewage or liquid industrial waste shall only be land applied at times set forth in an approved land application management plan (i.e., times of the day that will minimize human exposure to the application of the treated sewage or liquid industrial waste, such as early morning between 4:00 a.m. and 9:00 a.m.).	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K4 footnote 4	shall	All wastewater treatment works shall use E. coli as the indicator organism unless fecal coliform is specified by their existing NPDES permit.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	K5 footnote	shall	Shall be submitted as part of the initial and renewal application.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4	shall	Except as provided in paragraphs (L)(1) and (L)(2) of this rule, or unless waived by the director, ground water monitoring shall be provided for any lagoon, any storage facility, or any land application area that is a part of a land application system.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4a	shall	No land application system shall be operated without an approved ground water monitoring program.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4b	shall	A copy of the written ground water monitoring program plan and all analytical results, including quality assurance information, shall be kept and shall be made available for inspection by Ohio EPA staff upon request.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4b	shall	A copy of the written ground water monitoring program plan and all analytical results, including quality assurance information, shall be kept and shall be made available for inspection by Ohio EPA staff upon request.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no

3745-42-13	L4c	shall	A ground water monitoring program that is capable of determining the impact of the land application system on the first continuous significant zone of saturation underlying the land application system shall be conducted.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4c	shall	The ground water monitoring program shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4ciii	shall	The monitoring well layout shall include the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4d	shall	All monitoring wells shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4di	shall	All monitoring well locations shall be surveyed and all well construction and maintenance documentation shall be kept at the site of the storage facility and be available for inspection by Ohio EPA staff upon request.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4e	shall	All field forms, laboratory data to include quality assurance or quality control information, and other pertinent information related to the semiannual sampling event shall be kept and made available for inspection by Ohio EPA staff upon request.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4f	shall	Within seventy-five days of sampling, a letter that includes a table containing the summarized analytical results for each monitoring well for each semi-annual sampling event shall be forwarded to the director, or to the director's duly authorized representative.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4g	shall	The following results shall be forwarded to the director, or to the director's duly authorized representative, within fifteen days of receipt:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4h	shall	If the director determines, based on the ground water monitoring results, that a potential for significant adverse impact to the environment or public health is posed or if there is an impact to ground water, all land application operations shall cease until the director provides notification in writing that operations may resume.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	L4i	shall	Any monitoring well or boring drilled at the proposed or permitted storage facility, that is no longer needed, shall be abandoned in accordance with the requirements of rule 3745-9-10 of the Administrative Code and any other applicable requirements.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M	shall	When a hydrogeologic site investigation is required by paragraph (F) of this rule, a hydrogeologic site investigation report shall be submitted as part of the permit to install application that, at a minimum conforms to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M3	shall	This description shall do the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M4	shall	This description shall be based on data collected using appropriate subsurface investigatory methods such as borings, monitoring wells, tensiometers, geophysical surveys, soil surveys, cone penetrometers, piezometers and test pits.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M4	shall	The description shall, at a minimum do the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M4b	shall	This description shall include identification of any sources of seeps, springs, streams and other surface water features.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M4d	shall	This description shall, at a minimum do the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	N	shall	Soil and site evaluation requirements. For every land application system, a soil and site evaluation shall be done in accordance with this paragraph and shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	N	shall	Soil and site evaluation requirements. For every land application system, a soil and site evaluation shall be done in accordance with this paragraph and shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	N3	shall	In addition to the information in the general soil survey, the location of any soil delineations and the location and number of soil probes, pits or borings necessary to describe the soil conditions shall be determined by a professional soil scientist for the land application site, the lagoon site or the storage facility site.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	N3	shall	The soil delineations, soil probes, soil pits or soil borings shall conform to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no

3745-42-13	N3d	shall	In areas where glacial till and fractured bedrock substratum soils are in close proximity, the soil investigation shall be done to a depth of at least fifty inches or until bedrock is encountered.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O1a	shall	Records shall be maintained on forms provided by or approved by the director.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O1b	shall	Upon request by the director or the director's authorized representative, any person shall make available, within a reasonable time for inspection and copying, all records pertaining to the land application system, including the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O1c	shall	Any person who owns a land application system shall maintain all sampling and monitoring records at the treatment works for at least five years.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O1c	shall	These records shall be made available to Ohio EPA, upon request.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O2a	shall	The director shall be notified in writing within seven days of any person discovering noncompliance with a land application management plan or an NPDES permit.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O2b	shall	The director shall be notified at least six months prior to the expiration date of a land application contract.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O3d	shall	A land application system shall maintain compliance with effluent limits in the land application management plan or NPDES permit at the point the effluent leaves the treatment works, prior to storage, or prior to land application, if no storage is provided.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H4	must	Storage facilities must be equipped with a depth marker which clearly indicates the minimum freeboard level.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C2a	require	The director may require an isolation distance from natural or constructed wetlands to protect public health or the environment.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	D1	require	The director may deny any land application system permit application that does not contain the required information.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7aiih	require	The determination of appropriate weather conditions required for land application.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	E7aiikvi	require	Any other requirements, as required by the director to mitigate an unauthorized release.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	Table 13-1	require	Minimal information required	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	Table 13-1	require	Minimal information required	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	Table 13-1	require	Minimal information required	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	Table 13-1	require	Minimal information required	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1bv	require	Contain for any lagoon, a ground water monitoring plan in accordance with paragraph (L) of this rule, if required by paragraph (L) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1bvie	require	If soil probes, soil pits or soil borings are required to characterize the site, they shall be done in accordance with paragraph (N) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1d	require	For a land application system that serves more than one residence and where land application is the sole method of disposal, the director may require a land application contract for ninety-nine years.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F1eii	require	The required sampling and monitoring procedures.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	F2bi	require	Nitrogen. If the total inorganic nitrogen limit of ten milligrams per liter (i.e., nitrogen option 1) will be met, then a nitrogen balance is not required.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	G	require	Except where specific design criteria or methodologies are required by this rule, generally accepted design standards and methodologies shall be used to design the treatment works, including any treatment lagoon, or the sewerage system that is part of any land application system.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	Table H-1	require	Table H-1 Minimum required isolation distances	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	Table H-1	require	Minimum required isolation distance (feet)	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H3	require	The director may require a larger storage volume to ensure that sufficient storage is provided to meet in stream water quality standards during exceptionally dry periods, or to ensure sufficient storage is provided to accommodate inspections or offline repairs.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H3ai	require	The number of storage days required.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no

3745-42-13	H8	require	Soil material used in the liner shall be recompacted by using standard engineering compaction methods and recompacted to a minimum compaction rate of ninety-five per cent of standard dry density as determined by ASTM D698 or greater as required to achieve 1 x 10 ⁻⁷ centimeters per second maximum permeability.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table H4	require	Table H-4 Required thickness of recompacted clay liner	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table H4	require	Required thickness of recompacted clay liner	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	I1b	require	[Comment: Depending on the type of treatment works, the director may require additional screening or filtration to prevent spray nozzle clogging.]	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	I2	require	If soil probes, soil pits or soil borings are required to characterize the site, the soil probes, soil pits or soil borings shall be done in accordance with paragraph (N) of this rule.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table J-1	require	Table J-1 Minimum required isolation distances	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table J-1	require	Minimum required isolation distance (feet)	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	J3f	require	On fields with slopes greater than eight per cent unless the detailed engineering plans and specifications required by paragraph (F) of this rule include runoff control measures that demonstrate to the director runoff will not impact surface waters of the state.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	K1	require	The director may require sampling and monitoring of pollutants not listed in tables K-2 to K-5 of this rule, to protect public health or the environment.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	K4	require	In order to meet the effluent limits set forth in table K-3 or K-4 of this rule, disinfection prior to land application may be required.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table K-4 footnote	require	Effluent disinfection is not directly required; however, the entity is required to meet all applicable discharge permit limits.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table K-4 footnote	require	Effluent disinfection is not directly required; however, the entity is required to meet all applicable discharge permit limits.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table K-4 footnote	require	Any design of wastewater treatment works should provide for the capability to install disinfection if required at a future time.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table K-4 footnote	require	Disinfection may be required if bacteriological studies or emergency conditions indicate the need.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table K-4 footnote	require	7Calculations for the demonstrative nitrogen balance (i.e., nitrate-nitrogen available for leaching) are not required to be submitted if the application rate is designed to be less than or equal to twelve inches per acre per year.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	Table K-5 footnote	require	1To protect public health and the environment, the director may require monitoring for mercury.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L1	require	A ground water monitoring program is not required for the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L2a	require	A ground water monitoring program is not required for a storage facility when the treatment works that is part of a land application system has a design hydraulic capacity of less than one thousand gallons per day.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L2b	require	A ground water monitoring program is not required for a storage facility when the treatment works that is part of a land application system has a design hydraulic capacity of less than ten thousand gallons per day, and the storage facility conforms to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L2c	require	A ground water monitoring program is not required for a storage facility when there is more than fifteen feet of low permeability material between the bottom of the storage facility liner and the top of the first continuous significant zone of saturation, and the storage facility conforms to either of the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L3	require	The director may require a ground water monitoring program for any of the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L4ci	require	Continue as long as required by the director.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L4dii	require	The director may require a sampling frequency less frequent than semi-annually, provided the owner or operator has demonstrated to the director, based on at least three consecutive years of sampling results, that human health and the environment will be protected.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no
3745-42-13	L4giv	require	Additional parameters at concentrations as required by the director based on site-specific waste characterization.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)	no	no	no

3745-42-13	L4h	require	The director may require the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	M	require	When a hydrogeologic site investigation is required by paragraph (F) of this rule, a hydrogeologic site investigation report shall be submitted as part of the permit to install application that, at a minimum conforms to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	N3d	require	To protect public health or the environment, the director may require deeper soil probes, soil pits or soil borings.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O3a	require	The director may deny any land application management plan application not in compliance with this chapter and require the submittal of a new land application management plan application, including all applicable fees, to be submitted to Ohio EPA within thirty days.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	O3e	require	The director may require sampling and monitoring for pollutants at any drain tile outfall, including but not limited to the following:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H2a	may not	Storage facilities may not be located within drinking water source water protection area for a community, or non-transient non-community public water system using ground water unless:	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H2b	may not	Storage facilities may not be located within three hundred feet of a water supply well for a transient, non-community public water system.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	H2c	may not	Storage facilities may not be located within the emergency management zone of a public water system using surface water or not within one thousand five hundred feet of the drinking water intake, whichever results in a greater distance from the intake.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C1	prohibit	The land application of untreated sewage is prohibited.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C2b	prohibit	The director may prohibit the land application of treated sewage or liquid industrial waste beyond the ten-year flood plain in order to protect public health or the environment.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no
3745-42-13	C3c	prohibit	Additional storage volume is provided for all of the treated sewage or liquid industrial waste that is generated, when land application is prohibited due to seasonal variations in the vertical separation distance.	6111.03, 6111.04, 6111.44, 6111.45	State general authority - 6111.03 (G)		no	no	no