

**Appendix I.**  
**Implementation through NPDES Program**

## Tables

Table I-1. Recommended implementation actions through the NPDES program for TP.....	I-3
Table I-2. Recommended implementation actions through the NPDES program for TSS.....	I-5
Table I-3. Recommended implementation actions through the NPDES program for <i>E. coli</i> .....	I-7
Table I-4. Recommended implementation actions through the NPDES program for TDS.....	I-9
Table I-5. Recommended implementation actions through the NPDES program for MS4s for TP and TSS.....	I-9
Table I-6. Recommended implementation actions through the NPDES program for MS4s for <i>E. coli</i> .....	I-11
Table I-7. Recommended implementation actions through the NPDES program for MS4s for TDS.....	I-13

## Abbreviations and Acronyms

LTCP	long-term control plan
MS4	municipal separate storm sewer system
NPDES	National Pollutant Discharge Elimination System
TDS	total dissolved solids
TMDL	total maximum daily load
TP	total phosphorus
TSS	total suspended solids

## Units of Measure

c/hmL	<i>Escherichia coli</i> counts per 100 milliliters
lb/d	pounds per day
mgd	million gallons per day
mg/L	milligrams per liter

Table I-1. Recommended implementation actions through the NPDES program for TP<sup>1</sup>

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA		Recommended permit condition		Explanation for difference
					(mg/L)	(lb/d)	1 <sup>st</sup> phase	2 <sup>nd</sup> phase	
2PR00121	Country Stage Campground	UT WBBR	05 02	0.006	1.0	0.050	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
2PT00015	Black River Local School District	WFEBBR	03 02	0.025	1.0	0.21	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3GS00018	Wild Wood Lakes Campground	Clear Creek	03 02	0.005	1.0	0.042	(Facilities are covered by a general permit. Ohio EPA should assess whether individual permits would be appropriate due to TP loads).		
3GS00145	Free Enterprises, Inc.	Center Creek	04 02	0.000278	1.0	0.002			
3ID00070	Elyria Foundry Company, LLC	storm sewers to WBBR	05 06	storm water <sup>d</sup>	0.17	0.0021 - 1.6	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IG00085	Town and Country Co-op, Inc.	WBBR	05 06	storm water <sup>d</sup>	0.17	0.0021 - 1.6	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IH00110	Al Nimer (Medina Meats)	Crow Creek	04 02	0.0029	1.0	0.024	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IN00059	Buckeye Partners, L.P.	roadside ditch to Willow Creek	04 03	storm water <sup>d</sup>	0.08	0.000003 - 0.09	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IN00224	First Energy Generation Corp. - Westwood Ash Facility	Bannister Ditch	04 03	storm water <sup>d</sup>	0.08	0.0002 - 0.71	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IN00335	Lorain County Landfill, LLC	Plum Creek Squires Ditch	05 05	storm water <sup>d</sup>	0.17	0.019 - 14	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IS00079	Kalt Manufacturing Company	UT Ridgeway Ditch	06 02	0.005	1.0	0.042	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3IS00087	Spencer Forge and Manufacturing Company	UT EB Black River	04 01	0.00432	1.0	0.036	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PA00018	Spencer WWTP	Spencer Creek	04 01	0.090	0.7	0.526	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PA00024	Westfield Allotment WWTP	Ridgeway Ditch	06 02	0.025	1.0	0.209	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PB00024	Grafton WWTP	EBBR	04 04	1.500	0.21	2.6	1.0 mg/L	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PB00027	Lodi WWTP	EFEBBR	03 01	0.800	0.21	1.4	1.0 mg/L	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PB00061	LaGrange WWTP	Kelner Ditch	05 06	0.363	0.10	0.30	0.5 mg/L	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PC00014	Wellington WWTP	EFCC	05 01	0.750	0.08	0.50	1.0 mg/L <sup>b</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e, f</sup>
3PD00025	Oberlin WEPF	Plum Creek	05 05	1.500	0.21	2.6	1.0 mg/L	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PD00034	Elyria WWTP	Black River	06 02	13.00	0.17	18.4	0.7 mg/L	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PH00023	Eaton Homes WWTP	Willow Creek	04 03	0.200	0.18	0.30	1.0 mg/L <sup>b</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PH00024	Brentwood Lake	UT EBBR	04 04	0.120	0.7	0.701	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PP00004	Findley State Park Campground	UT Findley Lake	05 03	0.025	1.0	0.209	1.0 mg/L	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>

<sup>1</sup> Facilities not highlighted in yellow are included in this table due to impairment at the site on Black River downstream of Elyria WWTP at Ford Rd. (RM 9.80).

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA		Recommended permit condition		Explanation for difference
					(mg/L)	(lb/d)	1 <sup>st</sup> phase	2 <sup>nd</sup> phase	
3PR00185	Elyria Hauling Company	UT EBBR	04 04	0.007	1.0	0.058	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PR00191	Elyria Hotel	WBBR	05 06	0.002	1.0	0.017	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PR00326	D'Tanglez Studio	UT WBBR <sup>g</sup>	05 05	0.0015	1.0	0.013	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PR00394	Lorain County Resource Recovery Complex	UT Plum Creek <sup>h</sup>	05 05	0.008	1.0	0.067	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PR00434	Circle K No. 5312	Black River <sup>i</sup>	05 06	0.0015	1.0	0.150	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PR00487	The Activity Center	UT Black River	04 03	0.023	1.0	0.230	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PR00788	Elyria Airport	Jackson Ditch	04 04	0.001	1.0	0.008	Monitor	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PT00092	Chatham Township Community Center	EFEBBR	03 01	0.003	1.0	0.025	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PT00099	Litchfield Preschool Daycare Center	UT EBBR	04 02	0.009	1.0	0.075	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PT00103	EMSNET Business Center	UT EBBR	04 01	0.0066	1.0	0.661	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PT00104	Educational Service Center of Lorain County	UT Dent Ditch	05 06	0.0088	1.0	0.073	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PW00027	A-1 Construction Apartments	UT WBBR	05 04	0.003	1.0	0.025	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PW00033	Butternut Ridge Apartments	EBBR	04 04	0.0015	1.0	0.013	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PW00038	Butternut Terrace Apartments	Black River	04 04	0.0075	1.0	0.063	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>
3PZ00055	Forest Hills Country Club	UT WBBR	05 06	0.005	1.0	0.042	Monitor <sup>a</sup>	Evaluate <sup>c</sup>	Implement and re-assess biology <sup>e</sup>

Notes  
EBBR = East Branch Black River; EFCC = East Fork Charlemont Creek; EFEBBR = East Fork East Branch Black River; lb/d = pound per day as phosphorus; mgd = million gallons per day; mg/L = milligram per liter as phosphorus; NPDES = National Pollutant Discharge Elimination System; UT = un named tributary; WAU = watershed assessment unit; WBBR = West Branch Black River; WEPF = water environmental protection facility; WFEBBR = West Fork East Branch Black River; WLA = wasteload allocation.

- a. A new monitoring requirement is recommended.
- b. A new average monthly permit limit is recommended.
- c. Evaluate the discharge over the previous permit cycle and determine if modifications to the permit limit are necessary.
- d. These facilities discharge storm water and their WLAs are calculated based upon flow condition in the receiving stream. The range of WLA loads is displayed; for individual WLA loads per flow conditions.
- e. Facility data will guide implementation. A permit limit of 1.0 mg/L will likely be a significant reduction. Biology should be re-assessed after a permit limit of 1.0 mg/L is implemented.
- f. The Wellington WWTP (3PC00014) discharges to an unnamed tributary of Charlemont Creek (confluence at Charlemont Creek RM 0.51), which is a small headwaters stream.
- g. The D'Tanglez Studio (3PR00326) appears to discharge to Squires Ditch, a tributary to Plum Creek.
- h. Lorain County Resource Recovery Complex (3PR00394) is permitted to discharge overflow from an evaporation pond to an un named tributary of Plum Creek.
- i. Circle K No. 5312 (3PR00434) discharges to storm sewers that then discharge to the Black River.

Table I-2. Recommended implementation actions through the NPDES program for TSS

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA		Recommended permit condition		Explanation for difference
					(mg/L)	(lb/d)	1 <sup>st</sup> phase	2 <sup>nd</sup> phase	
2PR00121	Country Stage Campground	UT WBBR	05 02	0.006	12	0.60	No changes	No changes	--
2PT00015	Black River Local School District	WFEBBR	03 02	0.025	12	2.5	No changes	No changes	--
3GS00018	Wild Wood Lakes Campground	Clear Creek	03 02	0.005	12	0.50	(Facility is covered by a general permit.)		
3GS00145	Free Enterprises, Inc.	Center Creek	04 02	0.000278	12	0.028	(Facility is covered by a general permit.)		
3IH00110	Al Nimer (Medina Meats)	Crow Creek	04 02	0.0029	12	0.29	No changes	No changes	--
3IN00059	Buckeye Partners, L.P.	roadside ditch to Willow Creek	04 03	storm water <sup>c</sup>	25	0.23 - 27	25 mg/L <sup>d</sup>	Evaluate <sup>b</sup>	--
3IN00224	First Energy Generation Corp. – Westwood Ash Facility	Bannister Ditch	04 03	storm water <sup>c</sup>	25	2.0 - 225	No changes	Evaluate <sup>b</sup>	Current permit has an effluent limit of 30 mg/L.
3IN00335	Lorain County Landfill, LLC	Plum Creek Squires Ditch	05 05	storm water <sup>c</sup>	25	5.8 - 548	No changes	Evaluate <sup>b</sup>	Current permit has an effluent limit of 30 mg/L.
3IV00200	village of Wellington WTP	UT Charlemont	05 01	0.014	30	3.5	No changes	No changes	--
3IW00061	city of Oberlin WTP	WBBR	05 05	0.03	15	3.8	No changes	No changes	--
3PA00018	Spencer WWTP	Spencer Creek	04 01	0.090	12	9.0	No changes	No changes	--
3PA00024	Westfield Allotment WWTP	Ridgeway Ditch	06 02	0.025	12	2.5	No changes	No changes	--
3PB00024	Grafton WWTP	EBBR	04 04	1.500	12	150	No changes	No changes	--
3PB00027	Lodi WWTP	EFEBBR	03 01	0.800	12	80	No changes	No changes	--
3PB00061	LaGrange WWTP	Kelner Ditch	05 06	0.363	12	36	No changes	No changes	--
3PC00014	Wellington WWTP	EFCC	05 01	0.750	15	94	No changes	No changes	--
3PD00025	Oberlin WEPF	Plum Creek	05 05	1.500	12	150	No changes	No changes	--
3PH00023	Eaton Homes WWTP	Willow Creek	04 03	0.200	12	20.03	No changes	No changes	--
3PH00024	Brentwood Lake	UT EBBR	04 04	0.120	12	12.02	No changes	No changes	--
3PP00004	Findley State Park Campground	UT Findley Lake	05 03	0.025	12	2.5	No changes	No changes	--
3PR00185	Elyria Hauling Company	UT EBBR	04 04	0.007	12	0.70	No changes	No changes	--
3PR00191	Hetal Petal (Elyria Hotel)	WBBR	05 06	0.002	12	0.20	No changes	No changes	--
3PR00326	D'Tanglez Studio	UT WBBR <sup>e</sup>	05 05	0.0015	12	0.15	No changes	No changes	--
3PR00394	Lorain County Resource Recovery Complex	UT Plum Creek <sup>f</sup>	05 05	0.008	12	0.80	No changes	No changes	--
3PR00434	Circle K No. 5312	Black River <sup>g</sup>	05 06	0.0015	12	0.15	No changes	No changes	--
3PR00487	The Activity Center	UT Black River	04 03	0.023	12	0.23	No changes	No changes	--
3PT00092	Chatham Township Community Center	EFEBBR	03 01	0.003	12	0.30	No changes	No changes	--

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA		Recommended permit condition		Explanation for difference
					(mg/L)	(lb/d)	1 <sup>st</sup> phase	2 <sup>nd</sup> phase	
3PR00487	The Activity Center	UT Black River	04 03	0.0023	12	0.23	No changes	No changes	--
3PR00788	Elyria Airport	Jackson Ditch	04 04	0.001	12	0.10	No changes	No changes	
3PT00099	Litchfield Preschool Daycare Center	UT EBBR	04 02	0.009	12	0.90	No changes	No changes	--
3PT00103	EMSNET Business Center	UT EBBR	04 01	0.0066	12	0.66	No changes	No changes	--
3PT00104	Educational Service Center of Lorain County	UT Dent Ditch	05 06	0.0088	12	0.88	No changes	No changes	--
3PW00027	A-1 Construction Apartments	UT WBBR	05 04	0.003	12	0.30	No changes	No changes	--
3PW00033	Butternut Ridge Apartments	EBBR	04 04	0.0015	12	0.15	No changes	No changes	--
3PW00038	Butternut Terrace Apartments	Black River	04 04	0.0075	12	0.75	No changes	No changes	--
3PZ00055	Forest Hills Country Club	UT WBBR	05 06	0.005	12	0.50	No changes	No changes	--

Notes  
EBBR = East Branch Black River; EFCC = East Fork Charlemont Creek; EFEBBR = East Fork East Branch Black River; lb/d = pound per day; mgd = million gallons per day; mg/L = milligram per liter as phosphorus; NPDES = National Pollutant Discharge Elimination System; UT = unnamed tributary; WAU = watershed assessment unit; WBBR = West Branch Black River; WEPF = water environmental protection facility; WFEBBR = West Fork East Branch Black River; WLA = wasteload allocation.

- a. A new monitoring requirement is recommended.
- b. Evaluate the discharge over the previous permit cycle and determine if modifications to the permit limit are necessary.
- c. These facilities discharge storm water and their WLAs are calculated based up on flow condition in the receiving stream. The range of WLA loads is displayed; for individual WLA loads per flow conditions.
- d. A new average monthly permit limit is recommended.
- e. The D'Tanglez Studio (3PR00326) appears to discharge to Squires Ditch, a tributary to Plum Creek.
- f. Lorain County Resource Recovery Complex (3PR00394) is permitted to discharge overflow from an evaporation pond to an unnamed tributary of Plum Creek.
- g. Circle K No. 5312 (3PR00434) discharges to storm sewers that then discharge to the Black River.

Table I-3. Recommended implementation actions through the NPDES program for *E. coli*

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA (c/d)	WLA (c/hmL)	Recommended permit condition for <i>E. coli</i> (c/hmL)
2PR00121	Country Stage Campground	UT WBBR	05 02	0.006	$2.86 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
2PT00015	Black River Local School District	WFEBBR	03 02	0.025	$1.19 * 10^8$	126 <sup>a</sup>	Average monthly limit of 126
3GS00018	Wild Wood Lakes Campground	Clear Creek	03 02	0.005	$2.38 * 10^7$	126	(Facilities are covered by a general permit.)
3GS00145	Free Enterprises, Inc.	Center Creek	04 02	0.000278	$1.33 * 10^6$	126	
3ID00070	Elyria Foundry Company, LLC	storm sewers to WBBR	05 06	SW	$4.68 * 10^8$ - $5.82 * 10^8$	126	Average monthly limit of 126
3IG00085	Town and Country Co-op, Inc.	WBBR	05 06	SW	$4.68 * 10^8$ - $5.82 * 10^8$	126	Average monthly limit of 126
3IH00110	Al Nimer (Medina Meats)	Crow Creek	04 02	0.0029	$1.38 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3IN00059	Buckeye Partners, L.P.	RD to Willow Creek	04 03	SW	$9.94 * 10^5$ - $1.61 * 10^8$	126 <sup>a</sup>	Average monthly limit of 126
3IN00335	Lorain County Landfill, LLC	roadside ditch to Willow Creek	04 03	SW	$1.97 * 10^8$ - $1.93 * 10^{10}$	126 <sup>a</sup>	Average monthly limit of 126
3IN00224	First Energy Generation Corp. – Westwood Ash Facility	Bannister Ditch	04 03	SW	$7.45 * 10^8$ - $1.20 * 10^9$	126 <sup>a</sup>	Average monthly limit of 126
3IS00079	Kalt Manufacturing Company	UT Ridgeway D.	06 02	0.005	$2.38 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PA00018	Spencer WWTP	Spencer Creek	04 01	0.09	$4.29 * 10^8$	126 <sup>a</sup>	Average monthly limit of 126
3PA00024	Westfield Allotment WWTP	Ridgeway Ditch	06 02	0.025	$1.19 * 10^8$	126 <sup>a</sup>	Average monthly limit of 126
3PB00024	Grafton WWTP	EBBR	04 04	1.5	$7.15 * 10^9$	126	Average monthly limit of 126
3PB00027	Lodi WWTP	EFEBBR	03 01	0.8	$3.82 * 10^9$	126 <sup>a</sup>	Average monthly limit of 126
3PB00061	LaGrange WWTP	Kelner Ditch	05 06	0.363	$1.73 * 10^9$	126 <sup>b</sup>	Average monthly limit of 126
3PC00014	Wellington WWTP	East Fork Charlemont Cr.	05 01	0.75	$3.58 * 10^9$	126 <sup>b</sup>	Average monthly limit of 126
3PD00003	Avon Lake WPC <sup>c</sup>	Heider Ditch	06 03	CSO	n/a	n/a	--
		Powder Ditch		CSO	n/a	n/a	--
3PD00025	Oberlin WEPF	Plum Creek	05 05	1.5	$7.15 * 10^9$	126 <sup>b</sup>	Average monthly limit of 126
3PD00034	Elyria WWTP	Black River	06 02	13	$6.20 * 10^{10}$	126 <sup>b</sup>	Average monthly limit of 126
		Black River	06 02	CSO	$4.77 * 10^7$	126 <sup>b</sup>	Comply with LTCP
		EBBR	04 04	CSO	$2.38 * 10^9$	126 <sup>b</sup>	Comply with LTCP
		WBBR	05 06	CSO	$3.62 * 10^9$	126 <sup>b</sup>	Comply with LTCP
3PD00043	French Creek WWTP	French Creek	06 01	11.25	$5.37 * 10^{10}$	126 <sup>a</sup>	Average monthly limit of 126
3PE00005	Lorain Black River WWTP	Black River	06 02	15	$7.15 * 10^{10}$	126	Average monthly limit of 126
3PH00023	Eaton Homes	Willow creek	04 03	0.2	$9.54 * 10^8$	126 <sup>a</sup>	Average monthly limit of 126

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA (c/d)	WLA (c/hmL)	Recommended permit condition for <i>E. coli</i> (c/hmL)
3PH00024	Brentwood Lake	UT EBBR	04 04	0.12	$5.72 * 10^8$	126 <sup>a</sup>	Average monthly limit of 126
3PP00004	Findley State Park Campground	UT Findley Lake	05 03	0.025	$1.19 * 10^8$	126	Average monthly limit of 126
3PR00185	Elyria Hauling Company	UT EBBR	04 04	0.007	$3.34 * 10^7$	126	Average monthly limit of 126
3PR00191	Elyria Hotel	WBBR	05 06	0.002	$9.54 * 10^6$	126	Average monthly limit of 126
3PR00326	D'Tanglez Studio	UT WBBR	05 05	0.0015	$7.15 * 10^6$	126 <sup>a</sup>	Average monthly limit of 126
3PR00394	Lorain County Resource Recovery Complex	UT Plum Creek	05 05	0.008	$3.34 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PR00434	Circle K No. 5312	Black River	05 06	0.0015	$7.15 * 10^6$	126 <sup>a</sup>	Average monthly limit of 126
3PR00487	The Activity Center	UT Black River	04 03	0.0023	$1.10 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PR00788	Elyria Airport	Jackson Ditch	04 04	0.001	$4.76 * 10^8$	126	Average monthly limit of 126
3PT00088	Sheffield Middle School	French Creek	06 01	0.025	$1.19 * 10^8$	126 <sup>b</sup>	Average monthly limit of 126
3PT00092	Chatham Township Community Center	EBBR	03 01	0.003	$1.43 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PT00099	Litchfield Preschool Daycare Center	UT EBBR	04 02	0.009	$3.34 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PT00103	EMSNET Business Center	UT EBBR	04 01	0.0066	$3.15 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PT00104	Educational Service Center of Lorain County	UT Dent Ditch	05 06	0.008775	$4.19 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PW00027	A-1 Construction Apartments	UT WBBR	05 04	0.003	$1.43 * 10^7$	126	Average monthly limit of 126
3PW00033	Butternut Ridge Apartments	EBBR	04 04	0.0015	$7.15 * 10^6$	126 <sup>a</sup>	Average monthly limit of 126
3PW00038	Butternut Terrace Apartments	Black River	04 04	0.0075	$3.58 * 10^7$	126 <sup>a</sup>	Average monthly limit of 126
3PZ00055	Forest Hills Country Club	UT WBBR	05 06	0.005	$2.38 * 10^7$	126 <sup>b</sup>	Average monthly limit of 126

Notes

Facilities are sorted alphanumerically by permit number.

c/d = counts per day; c/hmL = counts per 100 milliliters; Cr. = creek; D. = ditch; EBBR = East Branch Black River; EFEBBR = East Fork East Branch Black River; mgd = million gallons per day; NPDES = National Pollutant Discharge Elimination System; RD = roadside ditch; SW = stormwater; UT = unnamed tributary; WAU = watershed assessment unit; WBBR = West Branch Black River; WEPF = water environmental protection facility; WFEBBR = West Fork East Branch Black River; WWTP = wastewater treatment plant.

a. This facility discharges to a stream formerly designated PCR Class B that is now designated PCR. The monthly average WLA is set equivalent to the new WQS geometric mean criterion (126 c/hmL).

b. This facility has fecal coliform limits in the current permit. The monthly average WLA is set equivalent to the new WQS geometric mean criterion (126 c/hmL).

c. The Avon Lake combined sewer system is on schedule to fully separate its sanitary sewers by 2020. A zero WLA is assigned to the Avon Lake WPCF (3PD00003).



Table I-4. Recommended implementation actions through the NPDES program for TDS

NPDES ID	Facility	Receiving waterbody	WAU	Design flow (mgd)	WLA (tons/day)	WLA (mg/L)	Recommended permit condition for TDS (mg/L)
3IS00079	Kalt Manufacturing Company	UT to Ridgeway Ditch	06 02	0.005	0.031	1,500	Monitor
3PA00024	Westfield Allotment WWTP	Ridgeway Ditch	06 02	0.025	0.016	1,500	Monitor
3PD00034	Elyria WWTP	Black River	06 02	13	81	1,500	Maintain average monthly limit of 1,551 mg/L

Notes

Facilities are sorted alphanumerically by permit number.

mgd = million gallons per day; NPDES = National Pollutant Discharge Elimination System; UT = unnamed tributary; WAU = watershed assessment unit; WWTP = wastewater treatment plant.

Table I-5. Recommended implementation actions through the NPDES program for MS4s for TP and TSS

Ohio EPA ID	Permittee	WAU	Draining to this TMDL	TP WLA (lb/d)	TSS WLA (lb/d)
3GQ10009	North Ridgeville	04 04	EBBR at WAU outlet	--	3.3 - 711
		06 01	French Creek at RM 9.02	0.24 - 34	--
		06 02	Black River at RM 9.80	0.079 - 54 <sup>a</sup>	--
3GQ00013	Lorain County Metro Parks	06 02	Black River at RM 9.80	0.068 - 4.6 <sup>a</sup>	--
3GQ00015	Grafton (village)	04 03	Willow Creek RM 2.35	0.00027 - 0.76	3.0 - 400
		04 04	EBBR at WAU outlet	--	10 - 2,213
		06 02	Black River at RM 9.80	0.34 - 23 <sup>a</sup>	--
3GQ00022	Ohio Turnpike Commission	06 01	French Creek at RM 9.02	0.0023 - 0.34	--
		06 02	Black River at RM 9.80	0.023 - 1.5 <sup>a</sup>	--
3GQ00056	Sheffield Lake	<i>none</i>			
3GQ00079	Bay Village	<i>none</i>			
3GQ00082	Elyria	04 04	EBBR at WAU outlet	--	11 - 2,450
		06 02	Black River at RM 9.80	1.4 - 97 <sup>a</sup>	--
3GQ00116	Avon Lake	<i>none</i>			
3GQ10001	North Olmsted	06 01	French Creek at RM 9.02	0.011 - 1.6	--
3GQ10002	Avon	06 01	French Creek at RM 9.02	0.046 - 6.6	--
3GQ10006	Sheffield (village)	<i>none</i>			
3GQ10012	Lorain County Storm Water Management District	04 03	Willow Creek RM 2.35	0.0010 - 2.8	0.31 - 36
		04 04	EBBR at WAU outlet	--	25 - 5,373
		05 04	WBBR at WAU outlet	--	2.0 - 383
		05 05	Plum Creek at WAU outlet	--	13 - 1,296

Ohio EPA ID	Permittee	WAU	Draining to this TMDL	TP WLA (lb/d)	TSS WLA (lb/d)
		06 02	Black River at RM 9.80	1.5 - 102 <sup>a</sup>	--
3GQ10013	Westlake	06 01	French Creek at RM 9.02	0.00033 - 0.048	--
4GQ00000	Ohio Department of Transportation	04 03	Willow Creek RM 2.35	0.00010 - 0.028	--
		04 04	EBBR at WAU outlet	--	0.74 - 158
		05 04	WBBR at WAU outlet	--	0.14 - 27
		05 05	Plum Creek at WAU outlet	--	0.14 - 15
		06 01	French Creek at RM 9.02	0.0010 - 0.14	--
		06 02	Black River at RM 9.80	0.045 - 3.1 <sup>a</sup>	--

Notes

Facilities are sorted alphanumerically by permit number.

Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 that drain to the specified TMDL, less any upstream, nested TMDLs.

EBBR = East Branch Black River; lb/d = pound per day; MS4 = municipal separate storm sewer system; RM = river mile; TMDL = total maximum daily load; TP = total phosphorus;

TSS = total suspended solids; WAU = watershed assessment unit; WBBR = West Branch Black River; WLA = wasteload allocation.

A double dash ("--") indicates that no WLA applies to the specified MS4 for the specified pollutant.

a. Stormwater discharges from MS4s are prohibited during low flow conditions (i.e., in-stream flows that are exceed 90 percent of the time or more).

Table I-6. Recommended implementation actions through the NPDES program for MS4s for *E. coli*

Ohio EPA ID	Permittee	WAU	<i>E. coli</i> WLA (counts per day)
3GQ10009	North Ridgeville	04 03	$2.51 * 10^7 - 4.15 * 10^9$
		06 01	$4.36 * 10^8 - 1.50 * 10^{11}$ a
		06 02 <sup>b</sup>	$1.43 * 10^6 - 5.25 * 10^{10}$ a
3GQ00013	Lorain County Metro Parks	06 01	$2.31 * 10^7 - 7.92 * 10^9$ a
		06 02 <sup>b</sup>	$1.41 * 10^7 - 5.15 * 10^9$ a
		06 03 <sup>c</sup>	$1.29 * 10^7 - 1.16 * 10^9$
		06 03 <sup>d</sup>	$2.34 * 10^7 - 2.33 * 10^9$
3GQ00015	Grafton (village)	04 03	$1.30 * 10^7 - 2.15 * 10^9$
		04 04	$1.62 * 10^8 - 4.38 * 10^{10}$
3GQ00022	Ohio Turnpike Commission	06 01	$4.86 * 10^6 - 1.67 * 10^9$ a
		06 02 <sup>b</sup>	$2.50 * 10^6 - 9.15 * 10^8$ a
3GQ00056	Sheffield Lake	06 03 <sup>e</sup>	$1.48 * 10^7 - 1.15 * 10^9$
3GQ00079	Bay Village	06 03 <sup>d</sup>	$1.37 * 10^8 - 1.37 * 10^{10}$
3GQ00082	Elyria	04 04	$1.82 * 10^8 - 4.94 * 10^{10}$
		05 06	$5.81 * 10^8 - 7.31 * 10^{10}$
		06 01	$6.07 * 10^6 - 2.08 * 10^9$ a
		06 02 <sup>b</sup>	$1.28 * 10^8 - 4.69 * 10^{10}$ a
3GQ00116	Avon Lake	06 01	$1.21 * 10^6 - 4.17 * 10^8$ a
		06 03 <sup>c</sup>	$2.55 * 10^8 - 2.30 * 10^{10}$
		06 03 <sup>e</sup>	$2.76 * 10^8 - 2.14 * 10^{10}$
		06 03 <sup>d</sup>	$5.65 * 10^8 - 5.63 * 10^{10}$
3GQ10001	North Olmsted	06 01	$4.74 * 10^7 - 1.63 * 10^{10}$ a
3GQ10002	Avon	06 01	$4.03 * 10^8 - 1.38 * 10^{11}$ a
		06 03 <sup>c</sup>	$4.32 * 10^8 - 3.89 * 10^{10}$
		06 03 <sup>e</sup>	$1.54 * 10^8 - 1.19 * 10^{10}$
3GQ10006	Sheffield (village)	06 01	$1.43 * 10^8 - 4.92 * 10^{10}$ a
		06 03 <sup>e</sup>	$2.24 * 10^6 - 1.74 * 10^8$
3GQ10012	Lorain County Storm Water Management District	04 03	$4.78 * 10^7 - 7.90 * 10^9$
		04 04	$3.08 * 10^8 - 8.34 * 10^{10}$
		05 04	$7.43 * 10^7 - 1.78 * 10^{10}$
		05 05	$3.34 * 10^8 - 3.31 * 10^{10}$
		05 06	$2.97 * 10^8 - 3.74 * 10^{10}$
		06 02 <sup>b</sup>	$1.28 * 10^7 - 4.69 * 10^9$ a
3GQ10013	Westlake	06 01	$8.26 * 10^7 - 2.83 * 10^{10}$ a
		06 03 <sup>c</sup>	$1.44 * 10^7 - 1.29 * 10^9$

Ohio EPA ID	Permittee	WAU	<i>E. coli</i> WLA (counts per day)
4GQ00000	Ohio Department of Transportation	04 03	$1.30 * 10^7 - 2.15 * 10^9$
		04 04	$6.91 * 10^6 - 1.87 * 10^9$
		05 04	$5.50 * 10^6 - 1.32 * 10^9$
		05 05	$2.38 * 10^6 - 2.35 * 10^8$
		05 06	$4.58 * 10^6 - 5.76 * 10^8$
		06 01	$4.86 * 10^6 - 1.67 * 10^9$ a
		06 02 <sup>b</sup>	$9.40 * 10^6 - 3.43 * 10^8$ a
		06 03 <sup>c</sup>	$2.24 * 10^6 - 1.74 * 10^8$

Notes

Facilities are sorted alphanumerically by permit number.

Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 within the specified WAU.

MS4 = municipal separate storm sewer system; WAU = watershed assessment unit; WLA = wasteload allocation.

a. Stormwater discharges from MS4s are prohibited during low flow conditions (i.e., in-stream flows that are exceed 90 percent of the time or more).

b. Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 within the *Black River* WAU (HUC 04110001 06 02) upstream of river mile 9.80.

c. Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 within the Heider Ditch subwatershed in the *Heider Ditch - Frontal Lake Erie* WAU (HUC 04110001 06 03) upstream of river mile 0.25.

d. Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 within the Powdermaker Ditch subwatershed in the *Heider Ditch - Frontal Lake Erie* WAU (HUC 04110001 06 03) upstream of river mile 0.30.

e. Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 within the Powdermaker Ditch subwatershed in the *Heider Ditch - Frontal Lake Erie* WAU (HUC 04110001 06 03) upstream of river mile 0.15.

Table I-7. Recommended implementation actions through the NPDES program for MS4s for TDS

Ohio EPA ID	Permittee	WAU	TDS WLA (tons per day)
3GQ10009	North Ridgeville	06 02	0.81 - 1,209
3GQ00013	Lorain County Metro Parks	06 02	0.079 - 119
3GQ00022	Ohio Turnpike Commission	06 02	0.014 - 21
3GQ00082	Elyria	06 02	0.72 - 1,080
3GQ10012	Lorain County Storm Water Management District	06 02	0.072 - 108
4GQ00000	Ohio Department of Transportation	06 02	0.0053 - 7.9

Notes

Facilities are sorted alphanumerically by permit number.

Ranges of WLAs are totals for all tributaries within the regulated area of each MS4 within the specified WAU.

MS4 = municipal separate storm sewer system; WAU = watershed assessment unit; WLA = wasteload allocation.