

Appendix 4. Near-Field TMDL Reports in the Maumee Watershed

Within the Maumee watershed, there are six approved TMDL reports for near-field impairments. This appendix includes a short summary of total phosphorus related impairments and allocations from each TMDL report. The total phosphorus TMDLs address impairments to near-field (stream) aquatic life use. U.S. EPA provides a decision document for every TMDL that is approved. Allocations listed in Table A4.1 are the WLAs for NPDES permitted facilities from those decision documents. Each TMDL project has an associated implementation plan that was developed with stakeholder engagement. For complete information about these allocations and recommended implementation actions, please see the linked TMDL documents.

Note: Near-field beneficial use impairments do exist in the Maumee watershed that have not been addressed by a TMDL to date. These impairments are not addressed by the far-field Maumee Watershed Nutrient TMDL. Ohio EPA will address these impairments with future actions, TMDL or otherwise.

The Upper Auglaize River Watershed TMDL Report was approved by U.S. EPA on Sept. 23, 2004. The project area includes the Auglaize River mainstem upstream the confluence with the Little Auglaize River and its tributaries, except the Ottawa and Blanchard rivers.

A total of eight total phosphorus TMDLs were calculated, and two facilities covered under NPDES permits were included in the wasteload allocation of the TMDL calculations. Both point and nonpoint sources of phosphorus contribute to the aquatic life use impairments throughout the watershed. “Nutrient concentrations (phosphorus and nitrogen parameters) in the Upper Auglaize River watershed are excessive in comparison with statewide data from unimpaired streams. Other indicators of nutrient enrichment problems that have been documented in impaired stream segments include depressed dissolved oxygen levels and wide diel swings, excessive algae, and trophic species shifts”.

epa.ohio.gov/static/Portals/35/tmdl/UpperAuglaizeFinalTMDL.pdf

The Blanchard River Watershed TMDL Report was approved by U.S. EPA on July 2, 2009. The project area includes the Blanchard River mainstem and tributaries. A total of 15 phosphorus TMDLs were calculated, and 24 facilities covered under NPDES permits were included in the wasteload allocation of the TMDL calculations. The majority of total phosphorus loading in the watershed is run-off from row crop agriculture, which is by far the dominant land use in the basin. Other notable sources include point sources, such as discharges from schools, highway roadside rest areas, municipal wastewater treatment plants, and failing home sewage treatment systems.

epa.ohio.gov/static/Portals/35/tmdl/BlanchardRiverTMDL_final_may09_wo_app.pdf

The Maumee River (lower) Tributaries Watershed and Lake Erie Tributaries TMDL Report was approved by U.S. EPA on Sept. 25, 2012. The project area includes tributaries to the lower section of the Maumee River (Grassy Creek, Grassy Creek Diversion, Crooked River, Delaware Creek, and Duck Creek). One phosphorus TMDL was calculated in the portion of the project area that is located within the Maumee River watershed, and five facilities covered under NPDES permits were included in the wasteload allocation of the TMDL calculations. Agricultural and urban runoff were the major sources of phosphorus in the watershed.

epa.ohio.gov/static/Portals/35/tmdl/MLEtribs_Final_Report.pdf

The Ottawa River Watershed (Lima Area) TMDL Report was approved by the U.S. EPA on April 15, 2014. The project area includes the Ottawa River mainstem and tributaries. A total of seven phosphorus TMDLs were calculated, and 10 NPDES permits were included in the wasteload allocation of the TMDL calculations. Agriculture, CSOs, and point source discharges were major sources of phosphorus in the watershed. In impacted segments, “the enrichment and excess algal production caused diel high and low dissolved oxygen (DO) fluctuations (and sometimes high pH values) that were exacerbated by chronic low flow conditions”.

epa.ohio.gov/static/Portals/35/tmdl/OttawaLima_Report_Final.pdf

The Powell Creek Watershed TMDL Report was approved by the U.S. EPA on June 18, 2009. The project area includes the Powell Creek mainstem, an Auglaize River tributary, and its tributaries. A total of 11 phosphorus TMDLs were calculated, and two NPDES permits were included in the wasteload allocation of the TMDL calculations. Agricultural fields and operations are major sources of phosphorus in the watershed with cultivated cropland being the dominant land use. Failing home sewage treatment systems (HSTS) also contribute phosphorus.

epa.ohio.gov/static/Portals/35/tmdl/PowellCreekTMDL_final_apr09_wo_apps.pdf

The Swan Creek Watershed TMDL Report was approved by the U.S. EPA on Jan. 6, 2010. The project area includes the Swan Creek mainstem and tributaries. A total of four phosphorus TMDLs were calculated, and five NPDES permits were included in the wasteload allocation of the TMDL calculations. A variety of sources contribute phosphorus to the Swan Creek watershed, the major sources include agriculture runoff, urban runoff, golf courses, and failing septic systems.

epa.ohio.gov/static/Portals/35/tmdl/SwanCreekTMDL_final_oct09_wo_app.pdf

Table A4.1. List of individual NPDES permitted facilities with total phosphorus wasteload allocations from near-field TMDL reports.

Facility	TMDL Project Area	Permit	Total Phosphorus WLA
Swanton WRRF	Swan Creek	2PB00025	0.47 kg/day
Ada WWTP	Ottawa (Lima)	2PB00050	0.85 kg/day
Bluffton WWTP	Blanchard	2PC00005	119 kg/year
Findlay WPCF	Blanchard	2PD00008	15,711 kg/year
Ottawa WWTP	Blanchard	2PD00028	296 kg/year
Lima WWTP	Ottawa (Lima)	2PE00000	5.33 kg/day
Shawnee No 2 WWTP	Ottawa (Lima)	2PK00002	2.31 kg/day
Cridersville WWTP	Ottawa (Lima)	2PB00048	0.61 kg/day
Columbus Grove WWTP	Ottawa (Lima)	2PC00004	2.16 kg/day
Spencerville WWTP	Upper Auglaize	2PC00000	621.7 kg/year

Vanlue STP	Blanchard	2PA00016	0.0489 kg/day
Rawson WWTP	Blanchard	2PA00039	0.209 kg/day
Arlington WWTP	Blanchard	2PA00050	22.2 kg/year
Uniopolis WWTP	Upper Auglaize	2PA00054	55.3 kg/year
Beaverdam WWTP	Blanchard	2PB00018	3.84 kg/year
Pandora WWTP	Blanchard	2PB00029	31.1 kg/year
Forest WWTP	Blanchard	2PB00044	12.0 kg/year
Continental WWTP	Powell	2PB00049	0.70 kg/day
Dunkirk WWTP	Blanchard	2PB00061	3.82 kg/year
Mast Estates WWTP	Blanchard	2PG00038	0.213 kg/year
Country Acres Golf Club	Blanchard	2PG00083	5.31 kg/year
Putnam Co MRDD Brookhill Ctr	Blanchard	2PG00112	5.31 kg/year
ODOT Dist 1 Park No 1-26 & 25	Blanchard	2PP00019	1.11 kg/year
Sycamore Springs Golf Course STU 1	Blanchard	2PR00098	8.12 kg/year
Camp Berry	Blanchard	2PR00146	12.13 kg/year
Miller City High Sch WWTP	Blanchard	2PT00025	5.31 kg/year
Cory Rawson Middle & Sr HS	Blanchard	2PT00031	1.73 kg/year
Swanton Meadows MHP	Swan Creek	2PY00022	0.066 kg/day
Arrowhead Lake MHP	Swan Creek	2PY00067	0.07 kg/day
PCS Nitrogen Ohio LP	Ottawa (Lima)	2IF00004	1.25 kg/day
Chemtrade Logistics Inc	Ottawa (Lima)	2IF00008	0.30 kg/day
Lima Refinery	Ottawa (Lima)	2IG00001	1.58 kg/day
PCS Nitrogen Ohio LP	Ottawa (Lima)	2IF00004	1.25 kg/day
Putnam County Landfill	Blanchard	2IN00122	0 kg/year
National Lime & Stone Co Lima Plant No 1	Ottawa (Lima)	2IJ00013	0.11 kg/day
Shelly Materials Inc - Forest Quarry	Blanchard	2IJ00022	2.66 kg/year
StoneCo Inc Maumee Quarry	Swan Creek	2IJ00048	6.54 kg/day
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Arlington Municipal WTP	Blanchard	2IZ00000	0 kg/year