

Ten Mile Creek and Ottawa River Watershed Projects Table

Causes of Impairment (Pollutant or Stressor)	Sources of Pollutant	Projects	Major Tasks/ Milestones	Potential Project Partners	Funding Source(s)	Timeline	Status (in progress, planning, concept, ongoing, complete, )	Performance Indicator/Environmental Results (Loadings)	Coastal Management Measure	HUC/Stream Segment Addressed	BUI Color Code: <span style="color:lightblue;">■</span> Impaired <span style="color:lightgreen;">■</span> Not Impaired <span style="color:yellow;">■</span> Unknown <span style="color:orange;">■</span> Not Applicable														Comments & Misc. Info.
											BUI #1	BUI #2	BUI #3	BUI #4	BUI #5	BUI #6	BUI #7	BUI #8	BUI #9	BUI #10	BUI #11	BUI #12	BUI #13	BUI #14	
All	All	Conduct a TMDL	1) Design watershed survey, 2) Collect water quality data, 3) Assess waterbodies, 4) Identify target conditions, 5) Develop restoration projects, 6) Select restoration scenario, 7) Prepare implementation plan, 8) Submit TMDL report, 9) Implement TMDL (inside Ohio EPA), 10) Implement TMDL (outside OEPA), 11) Annual validation activities, and 12) Validate water quality status	OEPA	OEPA	2011-2013	concept				X	X	X	X	X	X	X	X	X	X	X	X	X	Source: OEPA	
All	All	GIS Water Quality database (Phase 1)	1) Create relational database from OEPA water resources inventory data for Maumee AOC	University of Toledo, Maumee RAP	US EPA GLNPO	2004-2005	complete				X	X	X	X	X	X	X	X	X	X	X	X	X		
All	All	GIS Water Quality database (Phase 1)	2) Export LE Tribes data to a GIS format				complete				X	X	X	X	X	X	X	X	X	X	X	X	X		
All	All	GIS Water Quality database (Phase 1)	3) Publish relational database and GIS online				complete				X	X	X	X	X	X	X	X	X	X	X	X	X		
All	All	GIS Water Quality database (Phase 2)	Expand GIS to entire AOC				in progress				X	X	X	X	X	X	X	X	X	X	X	X	X		
Flow Alterations	Changing Land Uses	Lucas County Floodplain Map	1) Determine waterways to study and map versus redelinate	Lucas County Engineer and Auditor Offices, FEMA	Lucas County, FEMA	2005-2010	in progress	Study 60+ miles of stream to determine the current floodplain			X	X	X	X	X	X	X	X	X	X	X	X	X		
Flow Alterations	Changing Land Uses	Lucas County Floodplain Map	2) Conduct new studies			2005-2008	in progress				X	X	X	X	X	X	X	X	X	X	X	X	X		
Flow Alterations	Changing Land Uses	Lucas County Floodplain Map	3) Redelinate existing studies			2005-2008	in progress				X	X	X	X	X	X	X	X	X	X	X	X	X		
Flow Alterations	Changing Land Uses	Lucas County Floodplain Map	4) Request public comment on draft maps			2009	in progress				X	X	X	X	X	X	X	X	X	X	X	X	X		
Flow Alterations	Changing Land Uses	Lucas County Floodplain Map	5) Finalize maps and release electronically			2010	in progress				X	X	X	X	X	X	X	X	X	X	X	X	X		
Flow alterations	Channelization	Install Flood Control structure (detention/retention systems)		SWC and its partners, Maumee RAP Urban Runoff Action Group	SWC and its partners	2006-2010	concept			RM 24 to headwaters			X		X					X			X		
Flow alterations	dams	Ottawa Hills Dam Removal and Restoration Project	1) Develop plans and specs for dam removal	Village of Ottawa Hills; University of Toledo; Maumee RAP; TMACOG	Ohio EPA 319	2006-2008	planning	# of fish species found upstream of removed dam - sediment movement results	Chapter 7	RM 11.5 to RM 11.9			X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal and Restoration Project	2) Develop plans and specs for restoration in near dam areas				planning						X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal and Restoration Project	3) Hire contractor(s)				planning						X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal and Restoration Project	4) Remove dam				planning						X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal and Restoration Project	5) Install restoration practices				planning						X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal Study	1) Conduct HEC-RAS hydrology study/model	Village of Ottawa Hills; University of Toledo	ODNR - CZM, University of Toledo, Village of Ottawa Hills	2003-2004	complete	study report		RM 11.5 to RM 12.0			X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal Study	2) Conduct sediment survey for quantity and quality transport concerns				complete		7.5.1; 7.5.2				X		X				X			X	X		
Flow alterations	dams	Ottawa Hills Dam Removal Study	3) Conduct fisheries study/survey				complete	study report	7.5.1; 7.5.2	RM 17.25			X		X				X			X	X		
Flow alterations	dams	Remove Camp Miakonda Dam	1) Conduct sediment sampling for possible transport of contaminants upon removal of dam	Boy Scouts of America, Hull & Associates, ORKA,	Boy Scouts of America, US Fish and Wildlife Foundation, ORKA,	2003	complete						X		X				X			X	X		
Flow alterations	dams	Remove Camp Miakonda Dam	2) Remove dam			2003	complete	dam removed					X		X				X			X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 1)	1) Discontinue mowing	City of Toledo	City of Toledo	mid 1980's-1999	complete	37 acres of natural area restored and hydrology of floodplain restored to improve wildlife habitat	5.5.1; 8.3.2	RM 8.5 to RM 9.5			X									X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 1)	2) Allow area to naturalize			mid 1980's-1999	complete						X									X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 2)	1) Reestablish non-mowing and naturalization practices (Phase 1)	City of Toledo	Ohio EPA 319, Clean Ohio Fund	2005	concept	Improved hydrology, sediment retention, and enrich soil and seed bank	5.5.1, 8.3.2; Chapter 10.5	RM 9.5 to RM 10.5			X									X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 2)	2) Improve access for educational purposes with access drive and system of mowed trails			2005-06	concept						X									X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 2)	3) Excavate the streambank and build earthen embankments to direct floodwaters into the floodplain during storm events			2005-06	concept						X									X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 2)	4) Grade bottomland to create seasonal impoundments			2005-06	concept						X									X	X		
Flow alterations	Streambank modification	Jermain Meadow/Park Restoration (Phase 3)	1) Manage site for biological diversity	City of Toledo	City of Toledo	2007	concept	Improved hydrology, sediment retention, and enrich soil and seed bank	5.5.1, 8.3.2; Chapter 10.9				X									X	X		
Habitat modification	Changing land uses	Hoffman Road Boardwalk (Phase 1)	1) Design Boardwalk	City of Toledo	City of Toledo	2000	complete	number of annual visitors	Chapter 10.5; Chapter 7, Recom. 3a, 3b	RM 3.4 to RM 3.8			X						X			X			
Habitat modification	Changing land uses	Hoffman Road Boardwalk (Phase 1)	2) Construct Boardwalk				complete						X						X			X			



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Causes of Impairment (Pollutant or Stressor)	Sources of Pollutant	Projects	Major Tasks/ Milestones	Potential Project Partners	Funding Source(s)	Timeline	Status (in progress, planning, concept, ongoing, complete, )	Performance Indicator/Environmental Results (Loadings)	Coastal Management Measure	HUC/Stream Segment Addressed	BUI #1	BUI #2	BUI #3	BUI #4	BUI #5	BUI #6	BUI #7	BUI #8	BUI #9	BUI #10	BUI #11	BUI #12	BUI #13	BUI #14	Comments & Misc. Info.
Habitat modification	Removal of riparian vegetation	Centennial Grove	5) Install granite markers to identify and interpret project				complete																		X
Habitat modification	Removal of riparian vegetation	Habitat Restoration Plan	1) Develop habitat restoration inventory	TMACOG, US Fish & Wildlife, ODNR, Maumee RAP	GLNPO, US Fish & Wildlife		concept	river miles of bank restored		all of watershed				X											X
Habitat modification	Removal of riparian vegetation	Habitat Restoration Plan	2) Prioritize project areas based on restorability and community support				concept							X											X
Habitat modification	Removal of riparian vegetation	Habitat Restoration Plan	3) Conduct restoration projects				concept							X											X
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 1)	1) Discontinue mowing	City of Toledo	City of Toledo	mid 1980's-1999	complete	37 acres of natural area restored and hydrology of floodplain restored to improve wildlife habitat	5.5.1; 8.3.2	RM 8.5 to RM 9.5					X									X	X
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 1)	2) Allow area to naturalize			mid 1980's-1999	complete							X										X	X
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 2)	1) Reestablish non-mowing and naturalization practices (Phase 1)	City of Toledo	Ohio EPA 319, Clean Ohio Fund	2005	concept	Improved hydrology, sediment retention, and enrich soil and seed bank	5.5.1; 8.3.2; Chapter 10.5	RM 9.5 to RM 10.5				X		X							X	X	
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 2)	2) Improve access for educational purposes with access drive and system of mowed trails			2005-06	concept							X		X							X	X	
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 2)	3) Excavate the streambank and build earthen embankments to direct floodwaters into the floodplain during storm events			2005-06	concept							X		X							X	X	
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 2)	4) Grade bottomland to create seasonal impoundments			2005-06	concept							X		X							X	X	
Habitat modification	Removal of riparian vegetation	Jermain Meadow/Park Restoration (Phase 3)	1) Manage site for biological diversity	City of Toledo	City of Toledo	2007	concept	Improved hydrology, sediment retention, and enrich soil and seed bank	5.5.1; 8.3.2; Chapter 10.5	RM 9.5 to RM 10.5				X		X							X	X	
Habitat modification	Removal of riparian vegetation	ORKA tree planting	Plant native trees along river bank and Hoffman Road Boardwalk	ORKA	ORKA	2004-2005	complete	Number of trees planted	7.6.1; 8.3.3	RM 5				X										X	
nutrients	Cropland or pasture where manure is spread	Educate Horse owners on proper disposal of manure	Implement Equine Environmental Assurance and Liability Program for Fulton, Lucas and Wood Counties	LSWCD, WSWCD Ohio Livestock Coalition, Farm Bureau, Lucas and Wood Counties	Ohio Livestock Coalition, Farm Bureau, ODNR-DSWC	2006	concept				X			X		X	X		X	X					
Nutrients	Erosion and runoff from fertilized fields	Tillage Transect	Drive the transect points and mark in GPS and note land use.	USDA-NRCS, ODNR-SWCD, LSWCD	NRCS, ODNR-SWCD	2006-07	concept	Ability to calculate no-till acres and developed acres.				X			X										X
nutrients	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 1)	1) Design new Drains are for Rain storm drain stencils and companion door hangers	Maumee RAP, TMACOG, local jurisdictions, organizations	Maumee RAP, TMACOG, local jurisdictions, organizations	Spring 2005	complete	# of supplies ordered; # of households given educational materials; # of purchasing	Chapter 10.5; 5.7.1	all of watershed	X		X		X	X				X			X	X	
nutrients	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 1)	2) Place bulk order for local jurisdictions and organizations			Jun-05	complete				X		X		X	X				X			X	X	
nutrients	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 1)	3) Distribute stencils and door hangers for local jurisdictions and organizations to use			Jul-05	complete				X		X		X	X				X			X	X	
nutrients	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 2)	1) Design new Drains are for Rain storm drain stenciling Field Manuals	Duck and Otter Creeks Partnership, Maumee RAP, TMACOG, local jurisdictions, organizations	OEEF; 319 grants; ODNR/CZM grants; foundations; local donations; cities	year round	ongoing	# of stenciling manuals sold	Chapter 10.5; 5.7.1	all of watershed	X		X		X	X				X			X	X	
nutrients	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 2)	2) Fill orders for local jurisdictions and organizations as placed				ongoing				X		X		X	X				X			X	X	
nutrients	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 3)	Conduct public Storm Drain Stenciling events	Duck and Otter Creeks Partnership, Maumee RAP, TMACOG, local jurisdictions, organizations	OEEF, ODNR/CZM grants; foundations, Maumee RAP, TMACOG, local jurisdictions, organizations	April - Oct	ongoing	# of new storm drains stenciled; # of households given ed materials; # of volunteers participating			X		X		X	X				X			X	X	
organic enrichment	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 1)	1) Design new Drains are for Rain storm drain stencils and companion door hangers	Maumee RAP, TMACOG, local jurisdictions, organizations	Maumee RAP, TMACOG, local jurisdictions, organizations	Spring 2005	complete	# of supplies ordered; # of households given educational materials; # of purchasing	Chapter 10.5; 5.7.1	all of watershed	X		X		X	X				X			X	X	
organic enrichment	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 1)	2) Place bulk order for local jurisdictions and organizations			Jun-05	complete				X		X		X	X				X			X	X	
organic enrichment	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 1)	3) Distribute stencils and door hangers for local jurisdictions and organizations to use			Jul-05	complete				X		X		X	X				X			X	X	
organic enrichment	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 2)	1) Design new Drains are for Rain storm drain stenciling Field Manuals	Duck and Otter Creeks Partnership, Maumee RAP, TMACOG, local jurisdictions, organizations	OEEF; 319 grants; ODNR/CZM grants; foundations; local donations; cities	year round	ongoing	# of stenciling manuals sold	Chapter 10.5; 5.7.1	all of watershed	X		X		X	X				X			X	X	
organic enrichment	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 2)	2) Fill orders for local jurisdictions and organizations as placed				ongoing				X		X		X	X				X			X	X	

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organic enrichment	urban runoff	Storm Drain Stenciling Program (Drains are for Rain) (Phase 3)	Conduct public Storm Drain Stenciling events	Duck and Otter Creeks Partnership, Maumee RAP, TMACOG, local jurisdictions, organizations	OEEF, ODNR/CZM grants; foundations, Maumee RAP, TMACOG, local jurisdictions, organizations	April - Oct	ongoing	# of new storm drains stenciled; # of households given ed materials; # of volunteers participating		all of watershed	X		X			X	X				X	X			
Pathogens	Human & animal excreta	Educate Horse owners on proper disposal of manure	Implement Equine Environmental Assurance and Liability Program for Fulton, Lucas and Wood Counties	LSWCD, WSWCD Ohio Livestock Coalition, Farm Bureau	Ohio Livestock Coalition, Farm Bureau, ODRN-DSWC	2006	concept				X		X			X	X				X	X			
Pathogens	Septic systems	Expand Student Watershed Watch Program into additional schools		Maumee RAP, TMACOG, Ohio EPA, public and private schools	private donations	year round	ongoing			all of watershed			X				X	X			X	X			
Pathogens	Septic systems	Extend sewer system to eliminate septic systems	Identify areas needing sewer system, conduct necessary sampling and sewer upgrades	Ohio EPA, local cities, townships, county and villages	Ohio EPA, US Rural Development		concept	septic systems eliminated, bacteria level in river		all of Ottawa River Watershed in Lucas/Fulton	X		X					X	X		X	X			
pathogens	Septic systems	GIS Septic System Inventory (Phase 1)	1) Scan paper copies to create electronic files of existing septic systems	TMACOG, Toledo/Lucas County Health Dept, Lucas County Auditor's Office	Lake Erie Protection Fund, TMACOG, Toledo/Lucas County Health Dept, Lucas County Auditor's Office	2002-2005	complete	electronic database completed	5.6.2;	all of Ottawa River Watershed in Lucas County			X					X	X		X	X			
pathogens	Septic systems	GIS Septic System Inventory (Phase 1)	2) Convert electronic data into GIS map files			2002-2005	complete						X					X	X		X	X			
pathogens	Septic systems	GIS Septic System Inventory (Phase 1)	3) Intergrate with AERIS data			2002-2005	complete						X					X	X		X	X			
pathogens	Septic systems	GIS Septic System Inventory (Phase 1)	4) Train Health Dept personnel to input data and use GIS system			2005	in progress						X					X	X		X	X			
Pathogens	Septic systems	Install sewers in Berkey		Ohio EPA, Village of Berkey	Village of Berkey, US Rural Development		planning	septic systems eliminated, bacteria level in river decreases		RM 31.5 to 34	X		X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 1)	1) Identify stream sampling locations	TMACOG, Toledo/Lucas County Health Dept, Lucas County Auditor's Office, Wood County Health Dept	US ACE [WRDA sec. 401]	2004	complete	Sample 50 stream sites and dye test 100 septic systems per county to reduced discharges of unmeasurable amounts of inadequately treated sewage	5.6.2; Chapter 11	all of Ottawa River Watershed in Lucas County			X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 1)	2) Identify septic system dye testing locations			2004	complete						X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 1)	3) Conduct stream sampling and dye testing			2004	complete						X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 1)	4) Prioritize areas for enforcement based on testing results			2004	complete						X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 1)	5) Pursue enforcement requiring upgrades or replacement of failed or inadequate systems			2004	complete						X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 2)	1) Conduct additional stream sampling and dye testing	TMACOG, Toledo/Lucas County Health Dept, Lucas County Auditor's Office, Wood County Health Dept	WRDA 401, Ohio EPA 319	2005 - ?	concept	Sample additional 50 stream sites and dye test additional 100 septic systems per county to reduced discharges of unmeasurable amounts of inadequately treated sewage	5.6.2; Chapter 11	all of Ottawa River Watershed in Lucas County			X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 2)	2) Modify priority areas (if necessary)			2005 - ?	concept						X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 2)	3) Pursue enforcement requiring upgrades or replacement of failed or inadequate systems with cost share incentives (if available)			2005 - ?	concept						X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 3)	1) Continue to sample and dye test to identify problem areas	TMACOG, Toledo/Lucas County Health Dept, Lucas County Auditor's Office, Wood County Health Dept	WRDA 401, Ohio EPA 319	2006 - ?	concept	Sample stream sites and dye test septic systems as needed per county to reduced discharges of unmeasurable amounts of inadequately treated sewage	5.6.2; Chapter 11	all of Ottawa River Watershed in Lucas County			X					X	X		X	X			
Pathogens	Septic systems	Stream and Septic System Sampling Project (Phase 3)	2) Continue to pursue enforcement requiring upgrades or replacement of failed or inadequate systems with cost share incentives (if available) until priority areas are addressed		WRDA 401, Ohio EPA 319	2006 - ?	concept						X					X	X		X	X			
Pathogens	Septic systems	Student Watershed Watch	1) Enlist teacher/schools to participate	Maumee RAP, TMACOG, Ohio EPA, public and private schools	private donations	August - November	ongoing	annual data collection that documents water quality changes throughout the watershed; # of teachers/schools participating		all of watershed			X					X	X		X	X			
Pathogens	Septic systems	Student Watershed Watch	2) Conduct teacher training (see SWW Teacher Training/Creditable Data Certification)			Sept	ongoing						X					X	X		X	X			

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Pathogens	Septic systems	Student Watershed Watch	3) Teachers submit requests for supplies needed to Maumee RAP and sampling plan to Ohio EPA (if Qualified Data Collector)			Sept	ongoing													X	X				
Pathogens	Septic systems	Student Watershed Watch	4) Supplies are distributed to participating teacher/schools			Sept	ongoing													X	X				
Pathogens	Septic systems	Student Watershed Watch	5) Teachers conduct student training and sampling on designated sampling day (preferably)			mid-Oct	ongoing													X	X				
Pathogens	Septic systems	Student Watershed Watch	6) Teachers submit student data to Maumee RAP (and Ohio EPA if Qualified Data Collector)			late Oct- early Nov	ongoing													X	X				
Pathogens	Septic systems	Student Watershed Watch	7) Student share data and finding at Student Summit			mid-Nov	ongoing													X	X				
Pathogens	Septic systems	SWW Teacher Training/Creditable Data Certification	1) Conduct Teacher Training	Maumee RAP, Ohio EPA, Lucas SWCD		2006	concept	annual reporting of data collected to Ohio EPA; percentage of teachers reporting data		all of watershed										X	X				
Pathogens	Septic systems	SWW Teacher Training/Creditable Data Certification	2) Award a certificate completion for training				concept													X	X				
Pathogens	Septic systems	SWW Teacher Training/Creditable Data Certification	3) Submit certificate to Ohio EPA for Level 1 Qualified Data Collector (QDC) certification				concept													X	X				
Pathogens	Wastewater treatment plants	Conduct Sanitary Sewer Evaluation Study (SSES) of collection system	1) Evaluate capacity and related problems	City of Toledo	City of Toledo	1997	complete	Submission of approved plan		RM 0 to RM 3.0									X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Conduct Sanitary Sewer Evaluation Study (SSES) of collection system	2) Develop a plan for complete elimination of SSOs			1997	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Develop Long Term Control Plan for Combined Sewer Overflows	1) Develop public & regulatory agency participation plan	City of Toledo	City of Toledo	2002-2004	complete	Submission of approved plans/models		RM 0 to RM 23.5									X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Develop Long Term Control Plan for Combined Sewer Overflows	2) Develop flow characterization plan			2004	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Develop Long Term Control Plan for Combined Sewer Overflows	3) Develop water quality study			2004	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Develop Long Term Control Plan for Combined Sewer Overflows	4) Develop hydraulic model			2003	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Develop Long Term Control Plan for Combined Sewer Overflows	5) Develop water quality model			2003	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Expand Student Watershed Watch Program into additional schools		Maumee RAP, TMACOG, Ohio EPA, public and private schools	private donations	year round	ongoing			all of watershed									X	X					
Pathogens	Wastewater treatment plants	Implement Long Term Control Plan	1) Implement public & regulatory agency participation plan	City of Toledo	City of Toledo	2005-2016	concept	reduction in volume of CSO discharges		RM 0 to RM 23.5									X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement Long Term Control Plan	2) Implement flow characterization plan			2005-2016	concept												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement Long Term Control Plan	3) Implement water quality study			2005-2016	concept												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement Long Term Control Plan	4) Implement hydraulic model			2005-2016	concept												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement Long Term Control Plan	5) Implement water quality model			2005-2016	concept												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 1)	1) Construct Pt. Place Relief Pump Station	City of Toledo	City of Toledo	1997-2001	complete	elimination of SSO discharges / reduction in bacteria in river		RM 0 to RM 2.5									X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 1)	2) Eliminate cross connections			1997-2001	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 1)	3) Clean all sewers in Pt. Place			1997-2001	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 1)	4) Line 15,000 feet of sewers in poor condition			1997-2001	complete												X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 2)	1) Construct two pump stations in Pt. Place	City of Toledo	City of Toledo	2002-2006	in progress	elimination of SSO discharges / reduction in bacteria in river		RM 0 to RM 2.5									X	X					Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 2)	2) Construct 2 relief sewers			2002-2006	in progress												X	X					Part of Toledo Waterways Initiative

Ten Mile Creek and Ottawa River Watershed Projects Table

										BUI Color Code: <span style="color:lightblue;">■</span> Impaired <span style="color:lightgreen;">■</span> Not Impaired <span style="color:yellow;">■</span> Unknown <span style="color:orange;">■</span> Not Applicable															
Causes of Impairment (Pollutant or Stressor)	Sources of Pollutant	Projects	Major Tasks/ Milestones	Potential Project Partners	Funding Source(s)	Timeline	Status (in progress, planning, concept, ongoing, complete, )	Performance Indicator/Environmental Results (Loadings)	Coastal Management Measure	HUC/Stream Segment Addressed	BUI #1	BUI #2	BUI #3	BUI #4	BUI #5	BUI #6	BUI #7	BUI #8	BUI #9	BUI #10	BUI #11	BUI #12	BUI #13	BUI #14	Comments & Misc. Info.
Pathogens	Wastewater treatment plants	Implement recommendations in SSES (Phase 2)	3) Install a force main from new pumps stations to Phase 1 pump station			2002-2006	in progress						X							X	X		X	X	Part of Toledo Waterways Initiative
Pathogens	Wastewater treatment plants	Student Watershed Watch	1) Enlist teacher/schools to participate	Maumee RAP, TMACOG, Ohio EPA, public and private schools	private donations	August - November	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	Student Watershed Watch	2) Conduct teacher training (see SWW Teacher Training/Creditable Data Certification)			Sept	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	Student Watershed Watch	3) Teachers submit requests for supplies needed to Maumee RAP and sampling plan to Ohio EPA (if Qualified Data Collector)			Sept	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	Student Watershed Watch	4) Supplies are distributed to participating teacher/schools			Sept	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	Student Watershed Watch	5) Teachers conduct student training and sampling on designated sampling day (preferably)			mid-Oct	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	Student Watershed Watch	6) Teachers submit student data to Maumee RAP (and Ohio EPA if Qualified Data Collector)			late Oct- early Nov	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	Student Watershed Watch	7) Student share data and finding at Student Summit			mid-Nov	ongoing						X						X	X		X	X		
Pathogens	Wastewater treatment plants	SWW Teacher Training/Creditable Data Certification	1) Conduct Teacher Training	Maumee RAP, Ohio EPA, Lucas SWCD		2006	concept						X						X	X		X	X		
Pathogens	Wastewater treatment plants	SWW Teacher Training/Creditable Data Certification	2) Award a certificate completion for training				concept						X						X	X		X	X		
Pathogens	Wastewater treatment plants	SWW Teacher Training/Creditable Data Certification	3) Submit certificate to Ohio EPA for Level 1 Qualified Data Collector (QDC) certification				concept						X						X	X		X	X		
Pesticides	Sites of historical usage (old landfills)	Cap Dura Landfill	1) Install engineered base and liners	PRP's	PRP's	1999-2000	complete	percentage reduction of leachate		RM 5.6	X	X	X		X	X				X	X				
Pesticides	Sites of historical usage (old landfills)	Cap Dura Landfill	2) Install monitoring wells				complete				X	X	X		X	X				X	X				
Pesticides	Sites of historical usage (old landfills)	Cap Dura Landfill	3) Install protective cap & seed				complete				X	X	X		X	X				X	X				
Pesticides	Sites of historical usage (old landfills)	Cap Dura Landfill	4) Conduct Remedial Investigation				complete				X	X	X		X	X				X	X				
Pesticides	Urban/Suburban	Organic Lawn Care Clinic	Less fertilizer in urban/suburban runoff	SWCD/Black Swamp Conservancy	SWCD	Annual	ongoing						X		X										
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	1) Develop project	Maumee RAP, TMACOG, local Jurisdictions, US F&WS, ODNR	OEEF, local jurisdictions, US F&WS, ODNR, Maumee RAP, TMACOG	2003-2006	complete	Educate public on sources/pathways of nonpoint and point source pollution; pre- and post-campaign surveys show increased awareness of citizens	5.6.2; 5.7.1; Chapter 10.5	Sylvania & Washington Twp					X	X	X	X	X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	2) Release RFP/Hire contractors			9/3/04	complete						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	3) Create and distribute TV, cinema and newspaper ads			10/03-4/05	complete						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	4) Create and distribute 6 tip cards & bonus items			10/03-4/05	complete						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	5) Create and Implement pre-/post-campaign phone survey			12/03 & 5/05	complete						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 2) (Business Campaign)	1) Develop project	Maumee RAP, TMACOG, local jurisdictions	Maumee RAP, TMACOG, local jurisdictions	2004-2006	in progress	Educate business owners, manager and employees on sources/pathways of nonpoint and point source pollution; show increased awareness of through the # of businesses voluntarily participating in campaign		Sylvania & Washington Twp				X	X	X	X	X	X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 2) (Business Campaign)	2) Create and distribute 4 Guidebooks for local businesses			8/05-12/06	in progress						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 2) (Business Campaign)	3) Create and distribute print ads (newspaper, magazines, newsletters, bulletins)			10/05-12/06	in progress						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 3) (Watershed Awareness Campaign)	1) Design watershed signs for 4 streams (Ottawa, Swan, Maumee & Lake Erie)	Maumee RAP, TMACOG, local jurisdictions, organizations	Maumee RAP, TMACOG, local jurisdictions, organizations	Spring 2005	complete			Sylvania & Washington Twp			X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 3) (Watershed Awareness Campaign)	2) Place bulk order for local jurisdictions and organizations			Jun-05	complete						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign (Phase 3) (Watershed Awareness Campaign)	3) Distribute signs for local jurisdictions and organizations to use			Jul-05	complete						X		X	X			X	X		X	X		
Pesticides	Urban/suburban areas	Give Water a Hand Campaign and educational materials	Distribute info at events, programs and presentations	Maumee RAP; Lucas, Ottawa and and Wood SWCDs	Maumee RAP; Lucas, Ottawa and and Wood SWCDs	year round	ongoing			all of watershed			X		X	X			X	X		X	X		
Refuse, Litter and other debris	Illegal dumping of solid wastes	Pursue enforcement of existing litter or illegal dumping laws/ordinances		Local authorities with jurisdiction	OEEF		concept	reduction in illegal litter/dumping		all of watershed										X					

Ten Mile Creek and Ottawa River Watershed Projects Table

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											BUI #1	BUI #2	BUI #3	BUI #4	BUI #5	BUI #6	BUI #7	BUI #8	BUI #9	BUI #10	BUI #11	BUI #12	BUI #13	BUI #14		
Refuse, litter, etc	litter	CYS Day	1) Establish planning team	Maumee RAP; Duck and Otter Creeks Partnership; ORKA; Cities of Oregon, Northwood, Toledo; TMACOG; Lake Erie Commission; various other community partners	Solicit private and public contributions, grants when available	April - Sept (annually)	ongoing	Relative to previous years: 1) tons of garbage and debris removed from area streams; 2) number of volunteers that participate; 3) # of sites/RM cleaned 4) amount of support received for planning and funding the event	Chapter 10.5	RM 0 to RM 25												X				
Refuse, litter, etc	litter	CYS Day	2) Solicit contributions and site captain support			April - Sept	ongoing		Chapter 10.5														X			
Refuse, litter, etc	litter	CYS Day	3) Distribute promotional materials			June - Sept	ongoing																X			
Refuse, litter, etc	litter	CYS Day	4) Select waterways and sites to be cleaned			Aug	ongoing																X			
Refuse, litter, etc	litter	CYS Day	5) Conduct site captain training			Sept	ongoing																X			
Refuse, litter, etc	litter	CYS Day	6) Hold event and appreciation picnic			Sept	ongoing																X			
Refuse, litter, etc	litter	ORKA clean-up	Hold event cleaning streambank and river		ORKA	May (annually)	ongoing	tons of garbage and debris removed	Chapter 10.5													X				
Sediment/Siltation	Construction	Develop and Implement Stormwater Management Programs (Phase I and II)	1) Develop Pre-and post-construction standards	MS4s; Maumee RAP Urban Runoff Action Group	Lake Erie Protection Fund; Local jurisdictions	2003-2007	in progress	80% watershed jurisdictions with standards developed	5.3.1?	RM 0 To RM 23.5				X									X	X		
Sediment/Siltation	Construction	Develop and Implement Stormwater Management Programs (Phase I and II)	2) Develop and adopt pre- and post-construction ordinances				in progress	80% watershed jurisdictions with ordinances adopted						X									X	X		
Sediment/Siltation	Construction	Develop and Implement Stormwater Management Programs (Phase I and II)	3) Manage program and enforce ordinances				in progress	80% watershed jurisdictions with active stormwater management programs						X									X	X		
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 1)	1) Determine contents for manual	RAP Urban Runoff Action Group, MRRSWC	Lake Erie Protection Fund	2002	complete	Implement a regional/watershed management program: a) control increases in runoff rates, b) prevent losses in infiltration, c) prevent runoff pollution	5.3.3; 5.5.2	all of AOC				X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 1)	2) Write manual				complete							X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 1)	3) Identify alternative development designs/layouts that protect water quality				complete							X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 1)	4) Encourage local jurisdictions to adopt manual as their standards				complete							X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 2)	1) Review existing manual	Maumee RAP Urban Runoff Action Group, SWC	GLC	2005-2007	in progress	Completion and distribution of revised manual	Chapter 10.5; 5.7.1	all of watershed				X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 2)	2) Update chapters with new content and regulations			2005-2006	in progress							X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 2)	3) Conduct workshops and site visits for consultants, developers, contractors on stormwater plan preparation and post-construction BMPs			2006-2007	in progress	50 percent of consultants, developers, contractors that work in the area participate						X								X	X			
Sediment/Siltation	Construction	Regional Storm Water Standards Manual (Phase 3)	Maintain and update manual as needed				ongoing							X								X	X			
Sediment/Siltation	Construction	Require BMPs on smaller developments less than one acre					concept			all of watershed				X								X	X			
Sediment/Siltation	Cropland	Develop potential project list based on Cropland Inventory Project Results					concept			all of watershed				X								X	X			
Sediment/Siltation	Cropland	Identify extent & benefit of conservation tillage and other BMPs used by farmers in watershed					concept		Chapter 11	all of watershed				X								X	X			
Sediment/Siltation	Cropland	Incentive programs for implementation of agricultural BMPs such as filter strips & conservation tillage, fertilizer/pesticide management	Continue to promote and support the implementation of these programs	Ohio Lake Erie Commission USDA - NRCS SWCDs (Fulton & Lucas in Ohio, Monroe & Lenawee in MI)	Ohio Lake Erie Commission USDA - NRCS SWCDs (Fulton & Lucas in Ohio, Monroe & Lenawee in MI)		concept		3.3.1	all of watershed				X							X	X				
Sediment/Siltation	Cropland	Inventory watershed for amount of acreage in cropland	1) Develop inventory methodology utilizing existing AERIS system and other available resources	Maumee RAP Ag Runoff Action Group, SWCDs (Fulton & Lucas in Ohio, Monroe & Lenawee in MI), ODNR - SWC	U.S. ACE, Section 319, NatureWorks (ODNR)		concept		3.3.1	all of watershed				X								X	X			
Sediment/Siltation	Cropland	Inventory watershed for amount of acreage in cropland	2) Convert electronic data into GIS map files				concept							X								X	X			
Sediment/Siltation	Cropland	Inventory watershed for amount of acreage in cropland	3) Integrate with AERIS data				concept							X								X	X			
Sediment/Siltation	Cropland	Inventory watershed for amount of acreage in cropland	4) Determine impact on watershed and possible projects to reduce or eliminate				concept							X								X	X			







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Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	3) Identify data gaps				complete				X		X	X		X	X	X	X	X					
Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	4) Collect additional samples				complete				X		X	X		X	X	X	X	X					
Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	5) Analyze results				complete				X		X	X		X	X	X	X	X					
Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	6) Determine remedial options				complete				X		X	X		X	X	X	X	X					
Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	7) Select remedial option				complete				X		X	X		X	X	X	X	X					
Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	8) Implement remediation activities				complete				X		X	X		X	X	X	X	X					
Toxic substances	Industrial discharges (current or old)	Unnamed Tributary Remediation Project	9) Regrade and seed site				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Dura Landfill	1) Install engineered base and liners	PRP's	PRP's	1999-2000	complete	percentage reduction of leachate		RM 5.6	X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Dura Landfill	2) Install monitoring wells				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Dura Landfill	3) Install protective cap & seed				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap King Road Landfill	1) Conduct Remedial Investigation	Lucas County, PRPs	Lucas County, PRPs		complete	percentage reduction of leachate		RM ?? (King Rd. between Central Ave and Sylvania Ave)	X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap King Road Landfill	2) Conduct Feasibility Study			2003	complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap King Road Landfill	3) Develop Preferred Plan			2004	in progress				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap King Road Landfill	4) Release Decision Document			2006	in progress				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap King Road Landfill	5) Determine Remedial Design				in progress				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap King Road Landfill	6) Implement Remedial Action				in progress				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap North Cove Landfill	1) Conduct Remedial Investigation	City of Toledo	City of Toledo	? - 2005	complete	percentage reduction of leachate		RM 7.5 to RM 8.0	X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap North Cove Landfill	2) Conduct Feasibility Study				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap North Cove Landfill	3) Develop Preferred Plan				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap North Cove Landfill	4) Release Decision Document				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap North Cove Landfill	5) Determine Remedial Design				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap North Cove Landfill	6) Implement Remedial Action				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Stickney & Tyler Landfills (and part of XXKem)	1) Grub and regrade site	STAG	STAG	1998-1999	complete	percentage reduction of leachate		RM 5 to RM 6.3	X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Stickney & Tyler Landfills (and part of XXKem)	2) Install engineered base and liners				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Stickney & Tyler Landfills (and part of XXKem)	3) Install leachate collection/extraction systems & monitoring wells				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Cap Stickney & Tyler Landfills (and part of XXKem)	4) Install protective cap & seed				complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Continue to Implement remediation activities for other sites and sources (i.e. capping, etc.)	Develop Projects	PRPs, US EPA, Ohio EPA	PRPs, US EPA		ongoing				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Ottawa River AquaBlok Demonstration Proj.	1) Collect samples (sediment & biological)	City of Toledo, Hull & Associates	City of Toledo, LEPP	1998-2000	complete			RM 5.5 To RM 6.3	X		X	X		X	X	X	X	X	Final report expected after 5 year benthic study is conducted in 2004				
Toxic substances	Landfills (current or old)	Ottawa River AquaBlok Demonstration Proj.	2) Apply AquaBlok			Aug-99	complete				X		X	X		X	X	X	X	X					
Toxic substances	Landfills (current or old)	Ottawa River AquaBlok Demonstration Proj.	3) Monitor & sample site			2004	complete				X		X	X		X	X	X	X	X					
Toxic substances	Urban Runoff	Develop and Implement Stormwater Management Plans (Phase I and II)	1) Identify illicit connections	MS4, Ohio EPA DSW	MS4		in progress			RM 0 to RM 23.5	X		X	X		X	X	X	X	X					
Toxic substances	Urban Runoff	Develop and Implement Stormwater Management Plans (Phase I and II)	2) Eliminate illicit sources				in progress				X		X	X		X	X	X	X	X					
Toxic substances	Urban Runoff	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	1) Develop project	Maumee RAP, TMACOG, local Jurisdictions, US F&WS, ODNR	OEEF, local jurisdictions, US F&WS, ODNR, Maumee RAP, TMACOG	2003-2006	complete	Educate public on sources/pathways of nonpoint and point source pollution; pre- and post-campaign surveys show increased awareness of citizens	5.6.2; 5.7.1; Chapter 10.5	Sylvania & Washington Twp			X		X	X			X	X					
Toxic substances	Urban Runoff	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	2) Release RFP/Hire contractors			9/3/04	complete						X		X	X			X	X					
Toxic substances	Urban Runoff	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	3) Create and distribute TV, cinema and newspaper ads			10/03-4/05	complete						X		X	X			X	X					
Toxic substances	Urban Runoff	Give Water a Hand Campaign (Phase 1) (Residential Campaign)	4) Create and distribute 6 tip cards & bonus items			10/03-4/05	complete						X		X	X			X	X					

