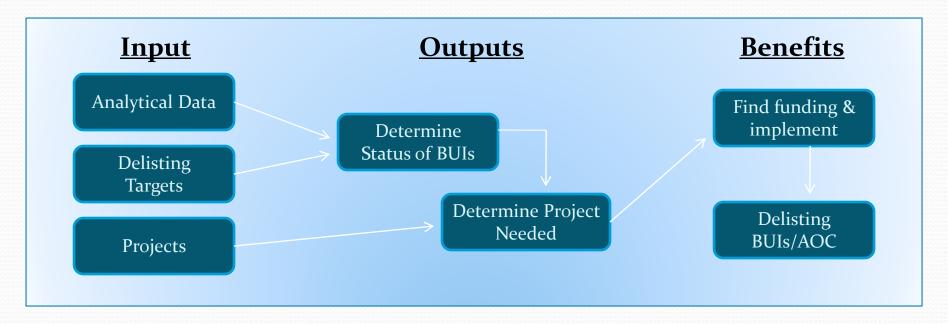
Area of Concern Information Management System

Chip Thomas
Environmental Consulting & Technology
December 1, 2011

Data Management and Delisting System

- US EPA funded the development of Information Management Systems for AOC planning and management
- Manage analytical data on AOC Beneficial Use Impairments
- Goal is to identify which stream segments or watersheds are impaired and guide the determination of projects needed for BUI removal and AOCs delisting
- Developing for the Maumee and Grand Calumet AOCs

Data Management and Delisting System



Database and website will be maintained by Ohio EPA and IDEM with input from local groups, businesses, academia and citizens.

Data will be able to be queried for specific streams, BUIs, or issues.

It will enable our region to better track project needs and success while keeping the *Stage 2 Watershed Restoration Plan* up to date.

Ohio EPA

Delisting Targets For Ohio Areas of Concern

Ashtabula River Cuyahoga River Black River

Maumee River



Black River

December 2008 (as revised from 2005 version) Ted Strickland, Governor Chris Korleski, Director

BUI 1: Restrictions on Fish and Wildlife Consumption

IJC Listing Guideline

An impairment will be listed when contaminant levels in fish or wildlife populations exceed current standards, objectives or guidelines, or public health advisories are in effect for human consumption of fish or wildlife. Contaminant levels in fish and wildlife must be due to contaminant input from the watershed.

State of Ohio Listing Guideline

This beneficial use shall be listed as impaired if:

1) An advisory or restriction to fish or wildlife consumption of one meal per month (or more stringent) is imposed by the Ohio Department of Health and 2) is due to sources within the

State of Ohio Delisting Target

✓ No fish consumption advisories of one meal per month (or more stringent) have been issued by the Ohio Department of Health that can be attributed to sources within the AOC.

- AND -

✓ No wildlife consumption advisories of one meal per month (or more stringent) have been issued by the Ohio Department of Health that can be attributed to sources within the AOC.

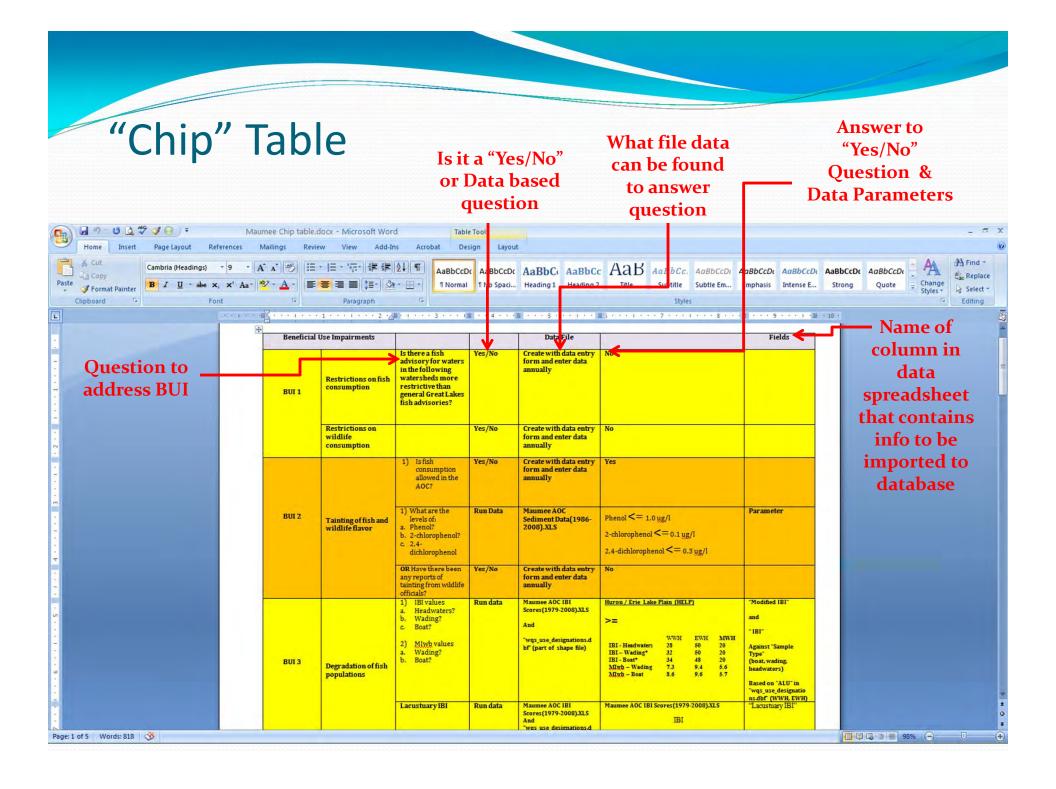
State of Ohio Delisting Milestones

- Track change in number/type of consumption advisories.
- > Track change in levels of contaminants in species with consumption advisories. Contaminant levels in fish tissue should not exceed 220 µg/kg (ppb) PCBs, or 220 µg/kg mercury.
- > Track change in levels of contaminants in the water column and sediment.
- No consumption advisories of one meal per month (or more stringent) in effect due to contaminant sources from within the AOC.

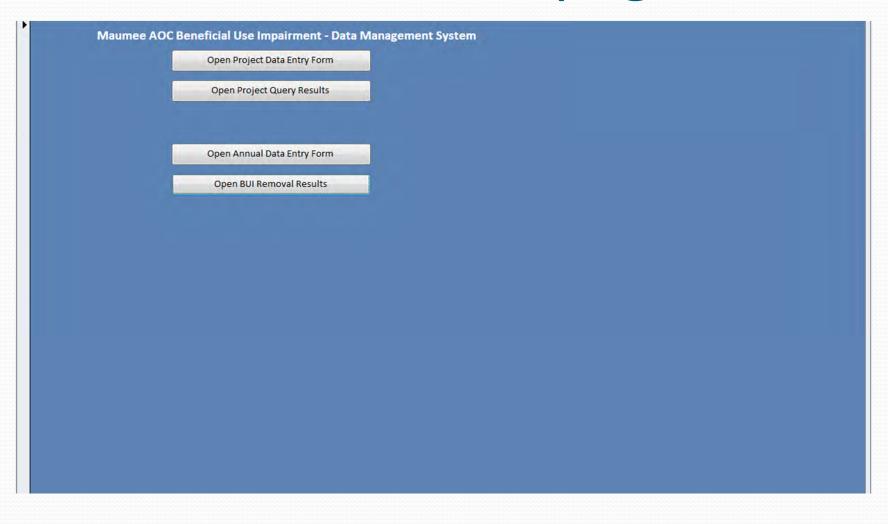
Rationale

While most Ohio sport fish are of high quality and a good source of protein, levels of chemicals such as PCBs, mercury, lead, and other metals and pesticides have been found in some fish from certain waters. To ensure the continued good health of Ohioans, the Ohio Department of Health, in cooperation with the Ohio Environmental Protection Agency and Ohio Department of Natural Resources, issues fish consumption advisories per Chapter 3701 or the Ohio Revised Code. Ohio uses the Protocol for a Uniform Great Lakes Sport Fish Advisory (1993) and the 2005 addendum to establish fish consumption advisories for PCBs and mercury, respectively. These are the contaminants that drive most of the advisories in Ohio waters.

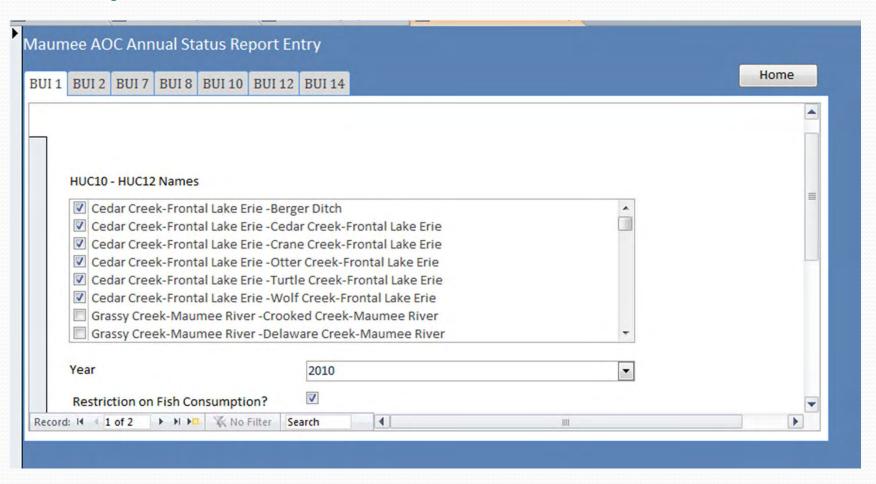
Snapping turtles are currently the only wildlife species with a consumption advisory in effect as issued by the Ohio Department of Health. This advisory was listed based on the results of a onetime study done in 1997. All turtles had high levels of PCB and mercury in fat and liver tissue



The Database Homepage



AOC Annual Status Report Data Entry Form



AOC Annual BUI Status Query

Select which BUI you want to check potential delisting status on

Go To Home

BUI 1 Status

BUI 2 Status

BUI 3 Status

BUI 4 Status

BUI 6 Status

BUI 7 Status

BUI 8 Status

BUI 10 Status

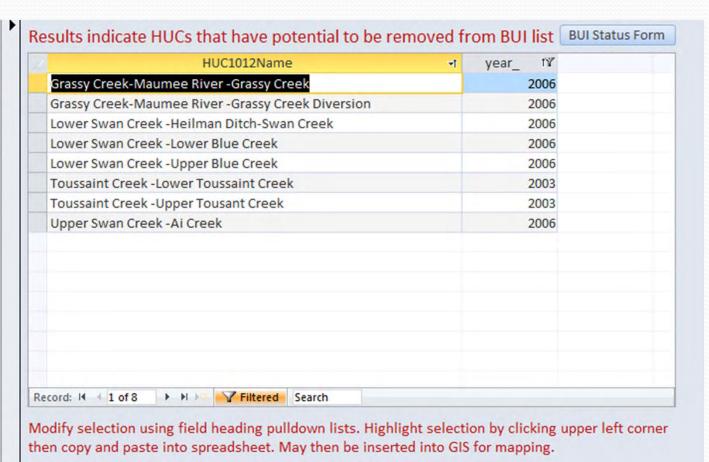
BUI 11 Status

BUI 12 Status

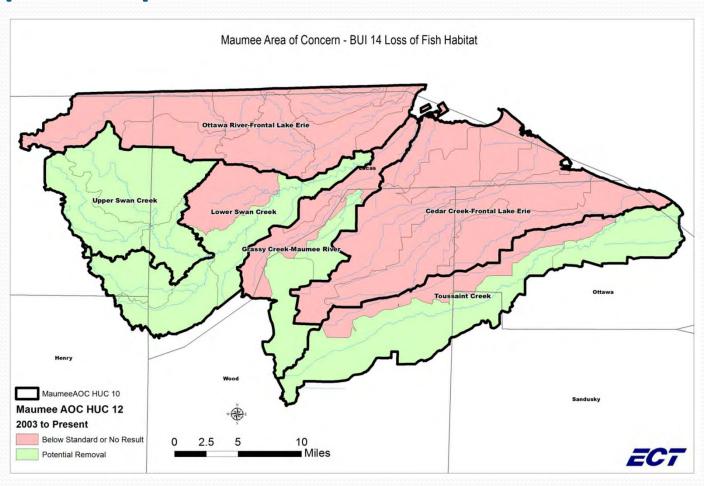
BUI 14 Status

Some BUI Status updates may take longer to load than others due to data computation.

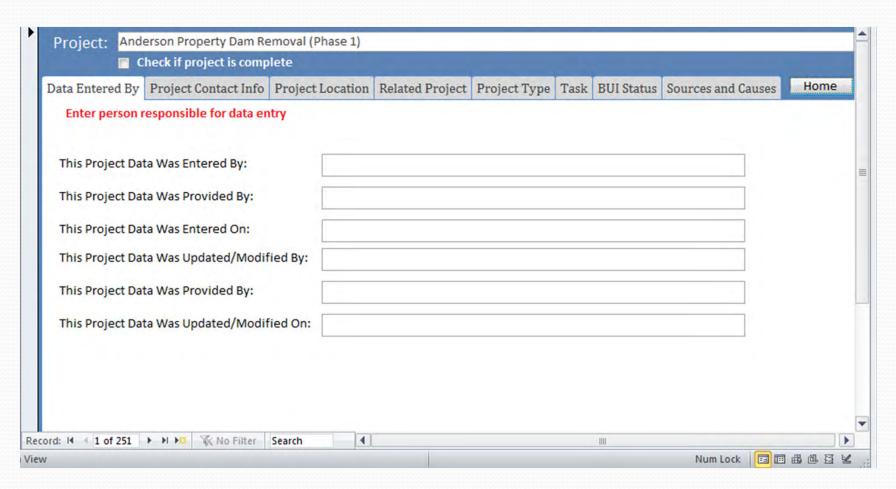
Results for BUI 14 Loss of Fish Habitat



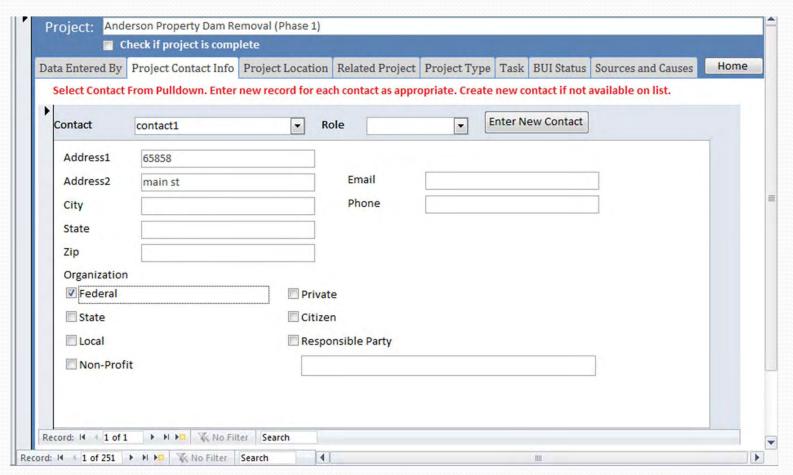
Map Output: Loss of Fish Habitat



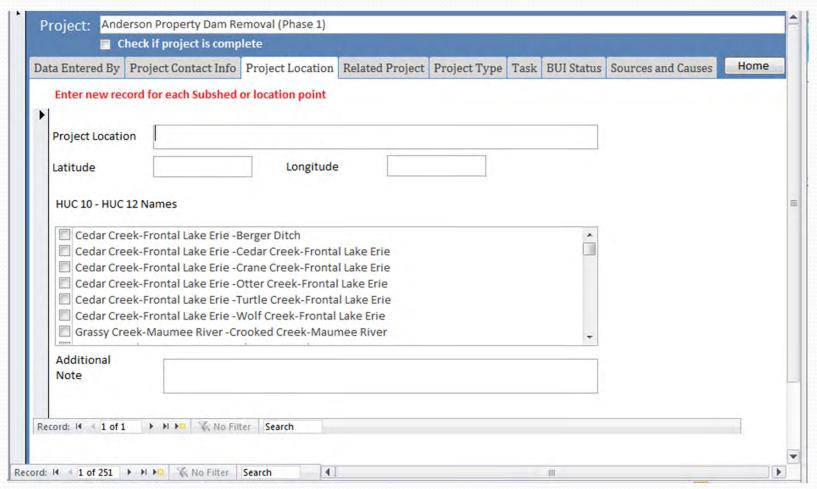
Project Data Entered By



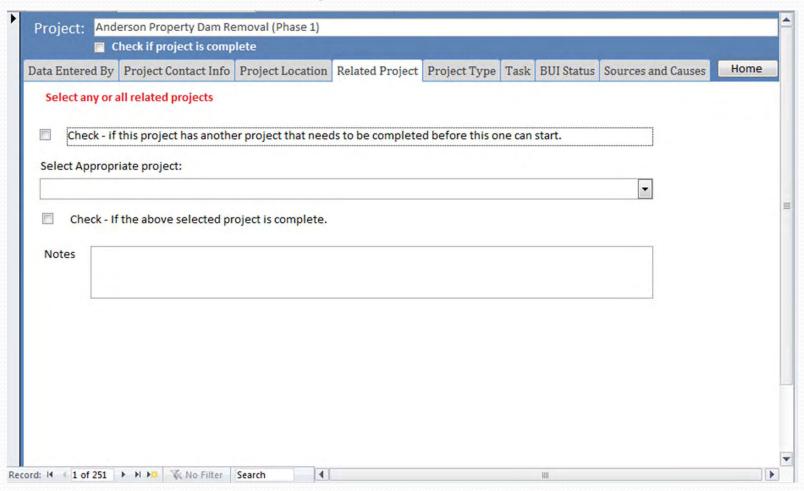
Project Contact



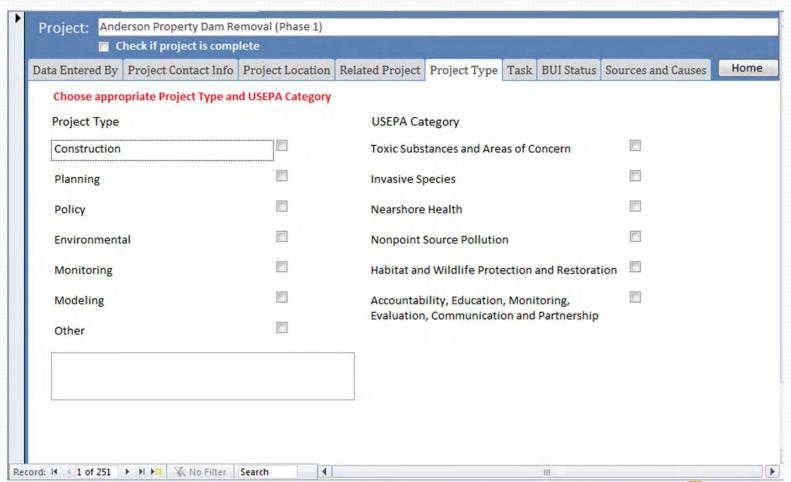
Project Location



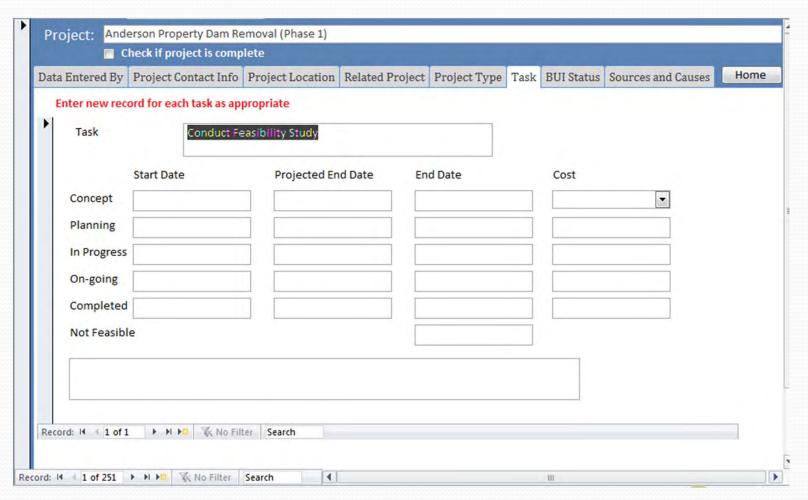
Related Project



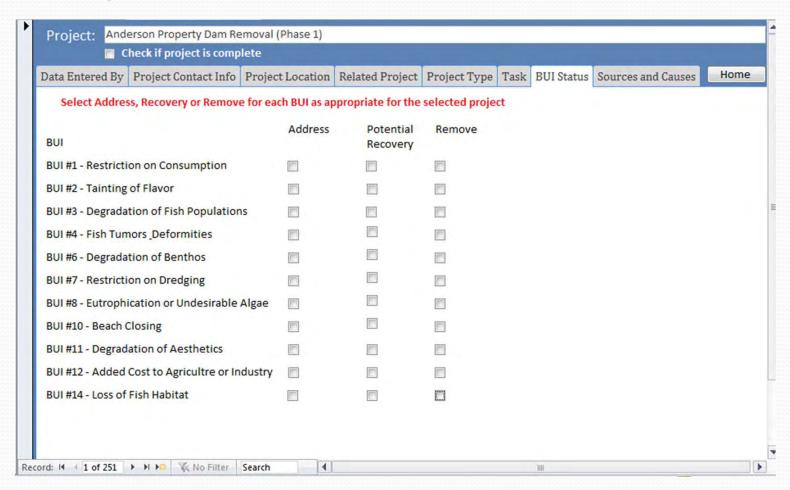
Project Type



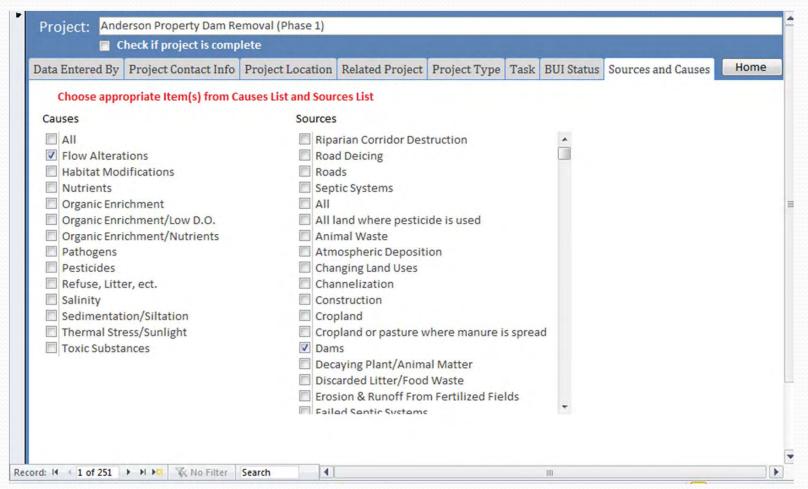
Project Task(s)



Project BUI Status



Project Sources and Causes



Project Questionnaire

Maumee AOC Stage 2 Watershed Restoration Plan Database Project Submission Sheet

	• BUISta	□ Toxic Substances and Areas of Concern □ Invasive Species □ Nearshore Health □ Nonpoint Source Pollution □ Habitat and Wildlife Protection and Restoration □ Accountability, Education, Monitoring, Evaluation, Communis	cation, and P	artnership Potential Recovery	Remov
	• BUISt:	Category: Toxic Substances and Areas of Concern Invasive Species Nearshore Health Nonpoint Source Pollution Abitat and Wildlife Protection and Restoration Accountability, Education, Monitoring, Evaluation, Communicatus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	cation, and P: Addresses	Potential Recovery	Remov
	• BUISt:	□ Toxic Substances and Areas of Concern □ Invasive Species □ Nearshore Health □ Nonpoint Source Pollution □ Habitat and Wildlife Protection and Restoration □ Accountability, Education, Monitoring, Evaluation, Communis	Addresses	Potential Recovery	Remov
	• BUISta	☐ Invasive Species ☐ Nearshore Health ☐ Nonpoint Source Pollution ☐ Habitat and Wildlife Protection and Restoration ☐ Accountability, Education, Monitoring, Evaluation, Communicatus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	Addresses	Potential Recovery	Remov
	• BUISta	□ Nearshore Health □ Nonpoint Source Pollution □ Habitat and Wildlife Protection and Restoration □ Accountability, Education, Monitoring, Evaluation, Communicatus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	Addresses	Potential Recovery	Remov
	• BUISt	☐ Nonpoint Source Pollution ☐ Habitat and Wildlife Protection and Restoration ☐ Accountability, Education, Monitoring, Evaluation, Communicatus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	Addresses	Potential Recovery	Remov
	• BUISt	☐ Habitat and Wildlife Protection and Restoration ☐ Accountability, Education, Monitoring, Evaluation, Communisatus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	Addresses	Potential Recovery	Remov
	• BUISta	☐ Accountability, Education, Monitoring, Evaluation, Communisatus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	Addresses	Potential Recovery	Remov
	• BUISta	atus: (check all that apply) Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor	Addresses	Potential Recovery	Remov
	2.	Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor		Recovery	Remov
	2.	Restrictions on Fish and Wildlife Consumption Tainting of Fish and Wildlife Flavor		Recovery	Remov
	2.	Tainting of Fish and Wildlife Flavor			Remov
	2.	Tainting of Fish and Wildlife Flavor		_	
	2	Tainting of Fish and Wildlife Flavor			
	2		п	п	
		Degradation of Fish and Wildlife Populations	_	-	_
	A	Fish Tumors or Other Deformities	******		
		Transcriber of the Delotting			
		Bird or Animal Deformities or Reproductive Problems			
	6	Degradation of Benthos	-		
	7.	Restrictions on Dredging Activities	п		
	Dente	***************************************		********	
		Eutrophication or Undesirable Algae			
	9.	Restrictions on Drinking Water Consumption or		- 0	
	10,000	Taste/Odor Problems			
	10	Beach Closings (Recreational Contact)		0	
4.1	11	Degradation of Aesthetics	0	0	
☐ Monito	12	. Added Costs to Agriculture or Industry			
□ Outrea	13			0	
	14	Loss of Fish and Wildlife Habitat			0
☐ Private	*****	***************************************			
☐ Respor	• Interde	ependent Projects			
	is t	this project completed? Yes No			
	is t	there a project that needs to be completed prior to this project	? □ Yes	□ No	
	□ Private	□ Private □ Respot • Interde	Populations 14. Loss of Fish and Wildlife Habitat Private Respor Interdependent Projects Is this project completed? Ves No	Populations 14. Loss of Fish and Wildlife Habitat Private Respor Interdependent Projects Is this project completed? Yes No Is there a project that needs to be completed prior to this project? Yes	Populations

Maumee AOC Stage 2 Watershed Restoration Plan Database Project Submission Sheet

	_			
Task Name:				
	Start Date	Projected End Date	Actual End Date	Estimated or Actua Cost or Range (5
Concept				
Planning				
In Progress				
Completed				
Ongoing				
Not Feasible				
Brief Descript				
Task #:				<u>'</u>
Task #:		Projected End Date	Actual End Date	
Task #:	_			
Task #:	_			
Task #: Task Name: Concept	_			
Task #: Task Name: Concept Planning	_			
Task #: Task Name: Concept Planning In Progress	_			Estimated or Actual Cost or Range (S

Acknowledgments

- John Perrecone, USEPA
- Cherie Blair, Ohio EPA
- Sanjiv, Sinha, Jeff Edstrom, Jodi McCarthy, ECT