

Overview of Assistance Needed in Michigan's Great Lakes Area of Concern

Prepared by the Statewide Public Advisory Council for Michigan Areas of Concern

April 2003

AOC	Assistance Needs							
	<i>Agency Liaison (EPA & Others)</i>	<i>Project Implementation and Remediation</i>	<i>Document Preparation</i>	<i>Project Planning</i>	<i>Monitoring & Assessment</i>	<i>PAC Facilitation & Community Outreach</i>	<i>Grant Writing and Funding</i>	<i>Research</i>
Clinton River	Contaminated sediments – need for better DEQ response. Assistance with nonpoint source pollution prevention. Help answer habitat questions - lacking species in available habitat.	Assistance with sediment remediation and stormwater management. Planning is in place but questions remain on implementation.	Support for RAP update or use Corps grant for summary update. Need to decide which route to go.	More coordination among agencies at all levels.	Mudpuppy sampling, as needed. Coordinated monitoring effort that covers entire AOC in relation to the BUIs. Funds for assessment and monitoring work.	Get PAC active again and addressing priorities in the AOC. Public relations assistance.	More information on grant availability as they apply to work needed in the AOC.	GIS assistance to identify wetlands, land use patterns and areas in need of protection.
Deer Lake	Continued work with Steve Hopkins, EPA Duluth and Sharon Baker DEQ/RAP liaison to provide continued technical assistance.	Impossible to determine what needs will be until completion of settlement talks between Cleveland-Cliffs Iron Company (CCIC) and MDEQ.	Impossible to determine what needs will be until completion of settlement talks between Cleveland-Cliffs Iron Company (CCIC) and MDEQ. Complete RAP document dependent upon above.	Impossible to determine what needs will be until completion of settlement talks between Cleveland-Cliffs Iron Company (CCIC) and MDEQ.	Any needed follow-up to sampling.	Impossible to determine what needs will be until completion of settlement talks between Cleveland-Cliffs Iron Company (CCIC) and MDEQ. Complete RAP document dependent upon above.	Impossible to determine what needs will be until completion of settlement talks between Cleveland-Cliffs Iron Company (CCIC) and MDEQ.	Impossible to determine what needs will be until completion of settlement talks between Cleveland-Cliffs Iron Company (CCIC) and MDEQ.

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Detroit River	<p>US EPA - Rose Ellison, RAP Liaison. GLNPO Habitat, sediments, survey and monitoring.</p> <p>USFWS - Fish wildlife, habitat, refuge management, NRDA.</p> <p>USACE - sediment remediation, support for RAPs, planning, environmental investigation and design.</p> <p>USGS - monitoring, contaminate and habitat research.</p>	<p>Funding for non-point source investigation, sediment remediation.</p> <p>Sub-watershed management plans need to be developed.</p> <p>Funding for land acquisition for Wildlife Refuge; continue to expand soft shoreline restoration efforts</p> <p>Support Detroit Urban Significant Plant Species Survey and restoration plan.</p> <p>Support Grosse Ile Nature Conservancy habitat restoration project.</p> <p>Support development of volunteer monitoring program.</p>	<p>Support for RAP update.</p> <p>Support for periodic update reports.</p> <p>Support for Annotated Bibliography database of Detroit River Reach.</p> <p>Habitat assessment.</p> <p>Natural Resources Damage Assessment.</p>	<p>All sediment sites identified in RAP, specifically Trenton Channel.</p> <p>All habitat restoration sites identified in RAP.</p> <p>Frank and Poet Stream restoration.</p> <p>Monitoring plan for river developed in conjunction with restoration targets and performance measures.</p>	<p>Support for the development of restoration targets and performance measures.</p> <p>Tributary monitoring.</p> <p>Expanded ambient water quality monitoring.</p> <p>CSO/SSO/Stormwater outfall monitoring for contaminant loads.</p> <p>Identify and quantify areas of non-point source contaminate load.</p>	<p>Funding for operation and base support to facilitate PAC.</p> <p>Identify and provide support for school and community education efforts that involve the Detroit River and RAP.</p> <p>Support for the development of 501c(3) status for the RAP.</p>	<p>Grants are needed to fund all proposed work listed herein for Detroit River.</p>	<p>Fish contaminate study, expand on the two species studied for consumption advisories.</p> <p>Non-point source study.</p> <p>Mass balance</p> <p>Habitat inventory.</p> <p>Local zoning inventory regarding habitat protection.</p> <p>CSO/SSO/storm water impact to River.</p> <p>NRDA.</p>
Kalamazoo River	<p>Staff to track AOC progress.</p> <p>Brian von Gunten, DEQ Superfund liaison and Sharon Baker DEQ/RAP liaison to provide continued technical assistance.</p> <p>Personnel and materials to implement the remedial actions outlined in the RAP.</p>	<p>Plainwell Dam PCB problem: preliminary study to take dam out; assistance with process – from DEQ & DNR. Answer PRP and State of Michigan liability issues.</p> <p>Support 23 Action Steps or "Necessary Remediation Activities" listed in the RAP under Sediment Remediation, Public Health Strategies, Habitat Loss & Degradation, Nonpoint Source Pollution, & Land Use.</p>	<p>Assistance in doing final report from Plainwell Dam study: make logistically pertinent to liability issues.</p>	<p>Consultation with MDNR Fisheries (Sharon Hanshue), MDEQ (Paul Birkholz) and USGS on dam removal.</p> <p>Tap Wisconsin agency folks to help with dam removal issues.</p>	<p>All set in this category.</p>	<p>Recruit more active PAC members for Kalamazoo River Watershed Council board representative of entire watershed.</p>	<p>Assistance with applying for Great Lakes Legacy Act funds.</p>	<p>Assistance with resolving toxicological issues which are often presented with opposing clinical results from EPA vs. PRP attorneys</p>

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Manistique Harbor and River	Bonnie Eleder, U.S. EPA and Sharon Baker DEQ/RAP liaison to provide continued technical assistance.		Technical review of final report on dredging (Bonnie Eleder). Preparation of delisting documents.		Monitoring related to delisting. DEQ to complete fish tissue analysis from caged fish study'02.	PAC support and facilitation for delisting.		
Menominee River	Sharon Baker DEQ/RAP liaison to provide continued technical assistance.	Complete coal tar site remediation.	Planning for delisting after WI sites complete remediation.		Monitoring related to delisting.	Community outreach associated with the delisting process.	Great Lakes Legacy Act funding for site remediation.	
Muskegon Lake	US EPA (Marc Tuchman) and DEQ staff (district and Lansing) to address contaminated sediments; US F&WS for habitat; USDA-NRCS for nonpoint source pollution; USACE for sediment transport modeling and contaminated sediment remediation; USGS for monitoring and contaminants program - research effects; Sharon Baker DEQ/RAP liaison to provide continued technical assistance.	Look at stormwater – big picture and alternatives available to address it (MDOT on public transit system/reduction of traffic on highways) Smart Growth Funding for contaminated sediments, groundwater and soils cleanups. Finish Superfund cleanups and LUST, 201 Sites. Implement shoreline habitat plan for Muskegon Lake.	EPA and DEQ assist and fund GVSU (and PAC) in developing numerical restoration targets and performance measures. Local citizens, planners, developers, EPA and DEQ to develop habitat plan for remediation of habitat.	Map out natural corridors Smart Growth Funding for Local govt's to use the RAP and plan how to consider groundwater / surface water / soils issues with developments around the lake and in the immediate drainage area. Fund an education and prevention plan for local officials to prevent re-contamination in new and existing developments Support for development of specific delisting / restoration targets. Develop shoreline habitat plan for Muskegon Lake.	Human and wildlife health assessments Assist Muskegon County Stormwater Committee to Monitor Stormwater outfalls in conjunction with stormwater permits and remediation of contaminated sediments and habitat restoration A groundwater plume map that goes back to old 307/201 list for AOC boundary Personnel/financial assistance for local research Address Musk Co. WMS to see what impacts there may be to the AOC – discharge/NPDES permit compliance and if there has been degradation as a result	EPA funds for local PAC support Provide support for K-12 and community education and outreach on necessary actions to reach identified targets Long-term K-12 outdoor experiences/hands on education - MERES / Causeway on lower River, other sites A MEAP-friendly K-12 curriculum to address local AOCs	Develop a directory (similar to NRCS community food security) of grant fund sources that cross references topics w/ sources	

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River Raisin		Removal and disposal of the PCB contaminated sediment identified in the AOC to the Sterling CDF.	Assistance with watershed management plan.	Continued support for sediment quality quadrats work by Scott Cienowksi.	Monitoring related to delisting process as final contaminated sediments work is done. Public fishing site in Detroit Edison corporate levee posted for catch and release and fish tested yearly to track levels of contamination. Use local students to track environmental contamination of fish.	Support AOC/PAC facilitation work of the River Raisin Watershed Council. Assistance for public education on RAP and stormwater issues (esp. as relates to Phase II)	Funding for watershed management plan.	E. coli testing in the entire watershed.
Rouge River	Not currently working with EPA staff. Continue working with district DEQ staff. Recruit USFWS staff for designing wildlife assessment studies.	Support for dredging over and above navigational dredging in the channel and to finish up long range dredging in the lower river. Implementation of various RAP recommendations regarding habitat and stormwater.	Support for RAP update and an update to the Rouge Report Card.		Fish tumor assessment. Water quality monitoring, esp. bacteria source tracking, nutrients, dissolved oxygen. Habitat inventories and fish population assessments. Flow monitoring data interpretation. Update biological-based targets.	Continued administrative support for RRAC and its five committees.	Investigate the possibility of RRAC becoming a nonprofit entity.	(See monitoring section.)
Saginaw River/Bay	Continued work with EPA and DEQ and others to implement recommendations from Measures of Success document.	Assistance with implementation of recommendations from Measures of Success document.	Continued support for RAP update.		Mudpuppy sampling in the Tittabawassee River. Monitoring of N:P ration in Saginaw Bay.	Funding for community outreach efforts.	Funding for staff to research and write grants.	

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St. Clair River	<p>Continued participation of Rose Ellison on Four Agency workgroup.</p> <p>DEQ staff to track AOC progress.</p> <p>DEQ staff to continue monitoring of contaminated sediments.</p> <p>Modeling, as done through Wayne State University to determine pollutants in St. Clair River</p>	<p>Funding for cleanup of contaminated sediments, groundwater and soil.</p>	<p>Continued support for RAP update.</p> <p>Funding for staff to do grant writing and other AOC documents.</p>	<p>Funding for an education and prevention plan for local officials.</p> <p>Assistance with developing subwatershed management plans.</p>	<p>Sampling related to TMDL development.</p> <p>Support for monitoring program to determine when getting close to delisting BUIs.</p> <p>Personnel and financial assistance for local research.</p> <p>Funding and assistance with beach monitoring.</p> <p>Need to better define monitoring parameters.</p> <p>Human and wildlife health assessments.</p>	<p>Provide BMP workshops.</p> <p>Funding for habitat education for riparian owners.</p> <p>Communities to adopt a management plan.</p> <p>EPA funds for local PAC support.</p> <p>Provide support for K-12 and community education and outreach.</p> <p>Long-term K-12 outdoor experiences, hands-on education.</p> <p>MEAP friendly K-12 curriculum to address local AOCs.</p> <p>Continued assistance in putting on workshop for local elected officials.</p>	<p>Continued funding for, maintenance and communication regarding grant fund sources that cross-reference topics with sources.</p> <p>Funding for staff to do grant writing.</p>	<p>Evaluation of potential sources of contaminants.</p> <p>Identify impacts of exotics on the community and develop management strategy.</p> <p>Identification of illicit sewer connections and funding to address issue.</p>
St. Marys River	<p>Continued input from Jennifer Manville.</p> <p>Continued work with MDEQ, OMOE, and EC.</p> <p>Better liaison with local municipalities, county government and the NRCS/conservation district.</p>	<p>Funding for an Ashmun Creek Center for outreach and education regarding the St. Marys watershed.</p>	<p>Support for development of RAP implementation annex.</p>	<p>Explore developing a GIS for the sources and processes impacting the St. Marys watershed.</p> <p>Sediment management plan. (RAP implementation annex would cover, but a GIS to support would be very useful.)</p>	<p>Coordinate with the Marsh Monitoring Program (MMP) on the Canadian side. Find contacts with the MMP and potentially have the program implemented on the U.S. side as well.</p>	<p>BPAC office support key; support for BPAC meetings</p> <p>Web site up to date, local publicity.</p> <p>Support for Annual environmental summit.</p> <p>Provide access to document collection and use the room LSSU provides (so BPAC can keep it).</p>	<p>Assistance with identifying sources for ongoing support of community outreach, advocacy, citizen science, etc.</p> <p>Need examples of successful projects, strategic partnerships.</p>	<p>(See "Project Planning.")</p>

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Torch Lake	Brenda Jones and Steve Padovani, U.S. EPA to provide continued technical assistance and project management. Continue inter-agency information sharing as per PAC requests.	Completion of Superfund site as per the ROD. Begin delisting AOC. Continue delisting Superfund.	Additional funding for PAC for final RAP document.		Mudpuppy sampling. Ongoing monitoring for Superfund and AOC delisting as work is completed.	EPA funding for local PAC. Fund PAC-driven community education.	Funding for narrative to begin delisting of final two beneficial use impairments.	
White Lake	Continued participation of Marc Tuchman on sediment work. Regular meetings with agency staff for updates and information sharing. Sharon Baker DEQ/RAP liaison to provide continued technical assistance.	Implement suggestions in Dr. Rediske's 2002 Contaminated Sediments Update. Priority strategy for all contaminated sediment sites. Implement nutrient management programs in watershed. Subwatershed management plans need to be developed and implemented. Implement the existing conservation, restoration, and preservation plan. Implement recommendations in existing habitat documents. Implement nutrient budget.	Develop contamination archive. Document and map wetlands in the watershed and restrictions on development. Support development of numerical restoration targets and performance measures.	Meetings with responsible parties and state/ local governments on use of sites (3, 5, and 10 year plans presented). Develop a combined "master plan" for White Lake communities using EPA's "Smart Growth" initiative.. Subwatershed management plans. Establish setbacks and zoning ordinances. Develop nutrient budget.	Implement monitoring at remediated sites: Tannery Bay and Oxy Chem. Maintain biological impact studies and consumption standards. Continued MDEQ monitoring to meet requirements for four successive years. Set goal of 75% of shoreline as natural habitat.	Funding for operations and base support to facilitate PAC activities. Convene EPA's "Watershed Academy" in the White Lake area. Strengthen information dissemination to public on health advisories. Dredging limitations in the lake. Funding for emphasis on nutrient education for White Lake communities (governments, landowners, farmers). Provide BMP workshops. Formation of a community-based watershed assembly. Funding for emphasis on habitat education for riparian owners (river and lake). Communities to adopt management plan.	Funding for clean up of remaining sites and ongoing monitoring. Funding for proposal prepared by GVSU to address nutrient loadings to White Lake. Base funding to sustain watershed assembly. Funding for large conservation easements on previous industrial sites. Support for community education programs on the importance of habitat.	Evaluate potential sources of contaminants. Impacts of fish species of importance to White Lake. Evaluate organic loading system. Develop GIS inventory of critical areas. Impacts of exotics on the community and management strategy