

**Urban Non-point Source Strategic Planning Considerations for 2008-2010 and Beyond (February 8, 2008)**

	<u>Issues</u>	<u>Solutions</u>	<u>Actions</u>	<u>Possible Agency/Group</u>	<u>Committed Agency/Group</u>	<u>Funding Options</u>	<u>Priority</u>	<u>Phosphorus Reduction Potential</u>	<u>Progress</u>
A	Reducing current loads is the goal, but how are these offset by growth? - Neither is tracked. How do we address in terms of P loading changes?	Perform NPS loading for entire watershed and determine rate of growth; use these calculations to determine P loading changes in the watershed.	1) Conduct updated NPS loading analyses 2) Perform build-out analyses	KRWC, K&A	KRWC	319 Grant	S	1	
B	Uniform zoning ordinances are lacking and how can these be tied to TMDL issues? Need ordinances to address/stop new NPS loads.	Quantify costs and benefits and publish/disseminate to watershed partners, public, municipalities, townships, etc.	1) Use resulting data from watershed build-out analysis to educate public/municipalities about P loading 2) Research loading and zoning costs and benefits for P reduction (using specific \$ per unit reduction)	KRWC, K&A, DEQ		319 Grant, PSs	S	1	
C	Local WMPs identified some key areas for BMPs but P loading, costs, effectiveness and reductions often not calculated, tracked or prioritized. Tools for assessment and BMP effectiveness under development - How to get all to adopt and use?	If MS4 SW permits incorporate TMDL issues and track P reductions, then when NutrientNet is upgraded to include urban BMPs, begin tracking MS4 BMP projects in NutrientNet. Provide training/workshops to users.	1) Push DEQ to stipulate all MS4 permits to track P related to TMDL goal 2) Pursue observational monitoring of new MS4 permits 3) Use NutrientNet to include urban BMPs 4) Provide training to users 5) Compile summaries of tracked MS4 reductions	DEQ, PSs, KRWC, K&A		DEQ, 319 Grant, TWG	S	1	
D	Funding - No recognized/unified funding strategy identified for the TMDL, nor are other funding sources such as NRCS, NRDA, Regional Coordinating Strategy, AoC, others unified in terms of TMDL goals. (Funding - What's unique to Kalamazoo? What is state, federal, regulated?)	Conduct a cross-cut analysis of funding options from this strategic planning process and formalize the new watershed partner agreement headed by the KRWC.	1) Conduct cross-cut analysis of funding options from this strategic planning process 2) Formalize the new watershed partner agreement by the KRWC 3) Current 319 projects work on reformulating broad watershed funding strategies	TMDL, KRWC		PSs, 319 Grant	S	1	
E	Rural communities not covered by MS4 permits and all townships: How do they recognize/abide by TMDL Load Allocations?	Identify these areas and relevant stormwater contributions, determining which areas stormwater policies are most relevant to TMDL. Provide data and information on TMDL, loadings, BMPs and applicable policy to these entities and track policy/BMP implementation. DEQ offer technical assistance to entities to conform.	1) Identify areas excluded from MS4s and areas with high stormwater contribution (using NPS loading analysis results) 2) Determine strategy to best provide data, TMDL info, loadings, BMPs and stormwater policy to these entities 3) Track and support policy and BMP implementation	TMDL, KRWC, PSs		319 Grant	S	1	
F	Private property redevelopment - on-site retrofits.	Pursue ordinances relate to property development, including on-site stormwater retention first, then treatment devices before discharge.	1) Promote new or existing ordinances (such as on-site stormwater retention and then treatment devices before discharge) 2) Model ordinance development	MS4s, Villages, Townships, Counties, KRWC		319 Grant	L	1	
G	Urban Stormwater BMP Funding is very limited, often to grants for retrofits. Urban retrofit costs poorly understood and not defined except on some case by case examples in Kalamazoo and Battle Creek via 319 WMP efforts. How to prioritize within watershed and amongst entities competing for funds.	Compilation and cross-cut analysis of existing data, analyses and resources.	1) DEQ compile 319 and CMI reporting forms and costs 2) Conduct cost analyses and prioritization 3) Conduct BMP monitoring 4) Identify funding sources 5) Prioritize BMP projects	TMDL, K&A, DEQ		PSs, 319 Grant	S	2	
H	Need to re-educate watershed stakeholders about the distribution of NPS loads; emphasizing urban.	Compile, present and distribute updated loading and cost analyses.	1) Determine which watershed partners and stakeholders can disseminate information	TMDL, KRWC		319 Grant	S	2	
I	What are the P and sediment loading reductions associated with Superfund site remediation projects? Who tracks and does anyone calculate?	Pursue data from EPA/PRPs associated with streambank restoration/remediation studies; determine if EPA/PRPs are monitoring or tracking these reductions.	1) Analysis streambank restoration (using NutrientNet) and resulting P and sediment loading reductions	KRWC, DEQ, K&A		PSs, 319 Grant	S	2	
J	Water quality modeling is needed to address fate and transport processes of P in the river system. TMDL assumptions of system response to BMP scenarios is speculative.	Identify funding for new modeling or find access to previous river models for the Kzoo River and TMDL area.	1) Research previous Kzoo River models and obtain access to data 2) Conduct time-variable water quality modeling for Kzoo River	KRWC, K&A		Grants	L	2	
K	MS4 staff time and funding to address new permit requirements.	Identify MS4 partners to address new permit requirements, funding allocations, and pooling of resources.	1) Identify and recruit MS4 partners 2) Determine how best to address new permit requirements, funding allocations, and pooling of resources to meet TMDL goals	MS4s		self-funded, Grants	S	3	
L	How do 319 and CMI BMP load tracking calculations compare to actual "delivered" loads.	Compile DEQ data from all watershed projects and run these through quantification tool (i.e., NutrientNet) to determine actual delivered P loads.	1) DEQ compile hard-copy files from all watershed projects 2) Use tracking/quantification tool (NutrientNet) to determine actual delivered loads and/or reductions from projects	TWG, K&A, DEQ		TWG	S	3	

S = Short-term (<3 years) planning and/or implementation  
L = Long-term (>3 years) planning and implementation  
1, 2, 3 refer to the highest to lowest potential for phosphorus reductions with implementation  
Underlined Text = Committed funding  
Cells highlighted in yellow were prioritized by the group to be addressed first