Regenerative Stormwater Conveyance (RSC) at CTH KR Roadway Expansion: Finding Win-Win

Dave Giordano Executive Director Root-Pike Water Initiative Network







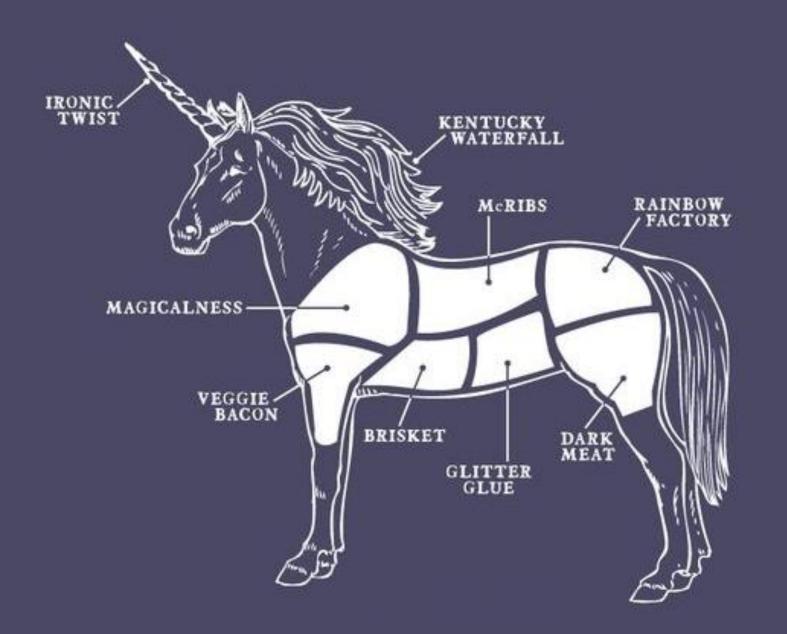














PROBLEMS



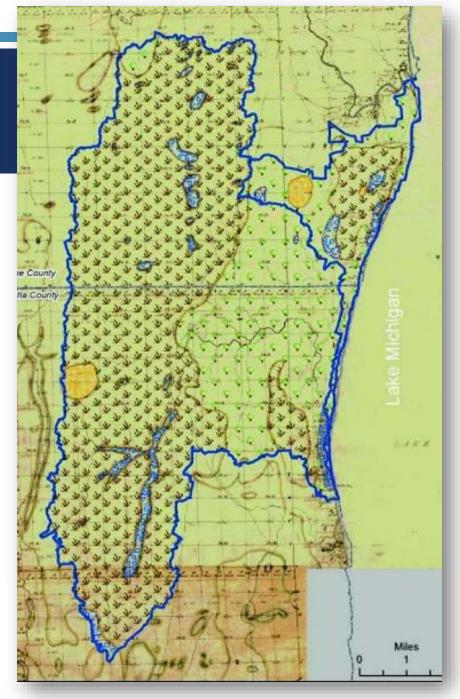
Oak (<u>Creek</u>	Oak Creek	0	13.32	14500	River	Milwaukee	Unknown Pollutant	Chronic Aquatic	303d Listed
<u>Unna</u>	amed	Waxdale Creek	0	2.91	2300	River	Racine	Unknown Pollutant	Chronic Aquatic	Pollutant Removed
Hoods Creek		<u>Hoods Creek</u>	0	9.7	3100	River	Racine	Unknown Pollutant	Degraded Biological	Proposed for List
Root				.72	4300	River	Milwaukee, Racine	Total Phosphorus	Low DO	303d Listed
Rest	River	Root River	0	.82	2900	River	Racine	Total Phosphorus	Impairment Unknown	303d Listed
Oak				13.32	14500	River	Milwaukee	Total Phosphorus	Degraded Biological	303d Listed
Upper					7100	Lake	Milwaukee,	Total Phosphorus	Impairment Unknown,	303d Listed
Scout					6100	Lake	Milwaukee	Total Phosphorus	Impairment Unknown	303d Listed
West				4.43	4500	River	Racine	Total Phosphorus	Low DO	303d Listed
Reset				48.69	2900	River	Milwaukee,	Total Phosphorus	Low DO, Degraded	303d Listed
Hustie				3.4	3500	River	Racine	Total Phosphorus	Degraded Biological	303d Listed
Pike				.45	1300	River	Kenosha	Total Phosphorus	Degraded Biological	303d Listed
Rest				25.8	2900	River	Milwaukee, Racine	Total Phosphorus	Low DO, Degraded	303d Listed
Pike				9.5	1300	River	Kenosha	Total Phosphorus	Degraded Biological	303d Listed
Root				20.48	2900	River	Milwaukee, Racine	Total Phosphorus	Degraded Biological	303d Listed
Unna				.18	6300	River	Milwaukee,	Total Phosphorus	Impairment Unknown	Proposed for List
Unna				7.3	6200	River	Milwaukee,	Total Phosphorus	Impairment Unknown	Proposed for List
<u>U</u> nna				3.9	4840	River	Racine	Total Phosphorus	Impairment Unknown	Proposed for List
<u>R</u> van				86.	5100	River	Milwaukee	Total Phosphorus	Degraded Biological	Proposed for List
Unna	med	Unnamed		.92	3385	River	Milwaukee, Racine	Total Phosphorus	Impairment Unknown	Proposed for List
Lak		Tre Beach,			20	Great Lakes Beach	Milwaukee	E. coli	Recreational	303d Listed
Lak	ich ga				20	Great Lakes Beach	Kenosha	E. coli	Recreational	303d Listed
Lak					20	Great Lakes Beach	Kenosha	E. coli	Recreational	303d Listed
<u>Lak</u>	DDC	DIEM	CCT		20	Great Lakes Beach	Kenosha	E. coli	Recreational	Water Delisted
Lak	PRU	DBLEM S	3 GEL		20	Great Lakes Beach	Kenosha	E. coli	Recreational	303d Listed
<u>Lak</u>	ichigan		·		20	Great Lakes Beach	Milwaukee	E. coli	Recreational	Water Delisted
<u>Lak</u>	Ichigan	Grant Park Beach			20	Great Lakes Beach	Milwaukee	E. coli	Recreational	303d Listed
<u>Lak</u>		TO THI			20	Great Lakes Beach	Racine	E. coli	Recreational	303d Listed
Lak	US				20	Great Lakes Beach	Milwaukee	E. coli	Recreational	Water Delisted
Lak					20	Great Lakes Beach	Kenosha	E. coli	Recreational	Delist
Root	CDA	1C 2021	> LICT	.82	2900	River	Racine	PCBs	Contaminated Fish	303d Listed
P ke	FPA	'S 303[) 5	.45	1300	River	Kenosha	PCBs	Contaminated Fish	303d Listed
Unna	direct Land			.0	15550	River	Milwaukee	Fecal Coliform	Recreational	TMDL Development
Root				.72	4300	River	Milwaukee, Racine	Sediment/Total	Low DO	303d Listed
North	303D LI	STED WATERS		.23	1900	River	Kenosha, Racine	Sediment/Total	Degraded Habitat	303d Listed
West			CINI	.43	4500	River	Racine	Sediment/Total	Low DO	303d Listed
Unna	INTHE	ROOT-PIKE BAS	211 <i>N</i>	2.91	2300	River	Racine	Sediment/Total	Degraded Habitat	303d Listed
Rest				43.69	2900	River	Milwaukee,	Sediment/Total	Low DO	303d Listed
Rest				25.8	2900	River	Milwaukee, Racine	Sediment/Total	Low DO	303d Listed
Pike				8.69	1200	River	Kenosha	Chloride	Chronic Aquatic	303d Listed
R				43.69	2900	River	Milwaukee,	Chloride	Chronic Aquatic	303d Listed
OBIG	Creek	Oak Creek	0	13.32	14500	River	Milwaukee	Chloride	Chronic Aquatic	303d Listed
	amed	North Branch Oak	0	5.7	14900	River	Milwaukee	Chloride	Chronic Aquatic	Proposed for List
North Branch Pike		North Branch Pike	5.23	7.87	1900	River	Racine	Chloride	Chronic Aquatic	Proposed for List
Pike	River	Pike River	0	1.45	1300	River	Kenosha	Chloride	Chronic Aquatic	303d Listed

OPPOSING FORCES

- "A one acre wetland, one foot deep, can hold approximately
 330,000 gallons of water."*
- 90% of the Pike River's wetlands are altered or gone.
 - * Source: Brian K. Miller, Purdue University
- I Source: Pike River Nine Key Element Watershed Restoration Plan (2013)

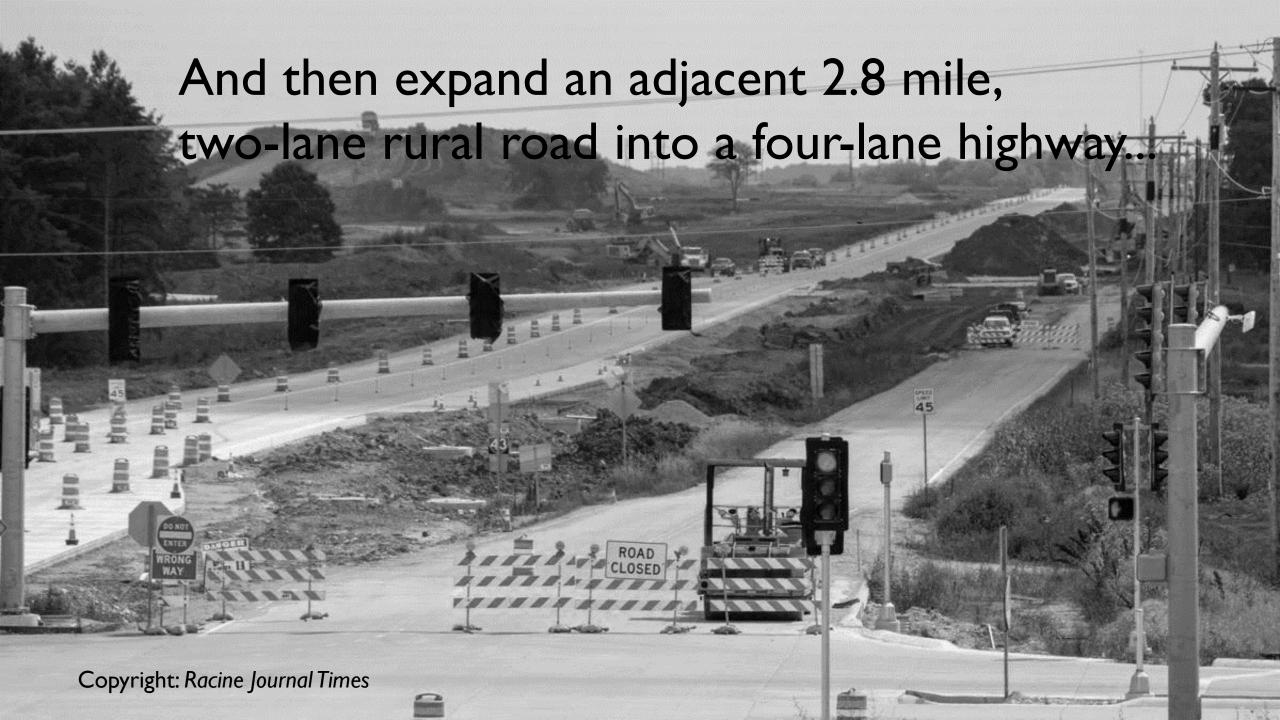














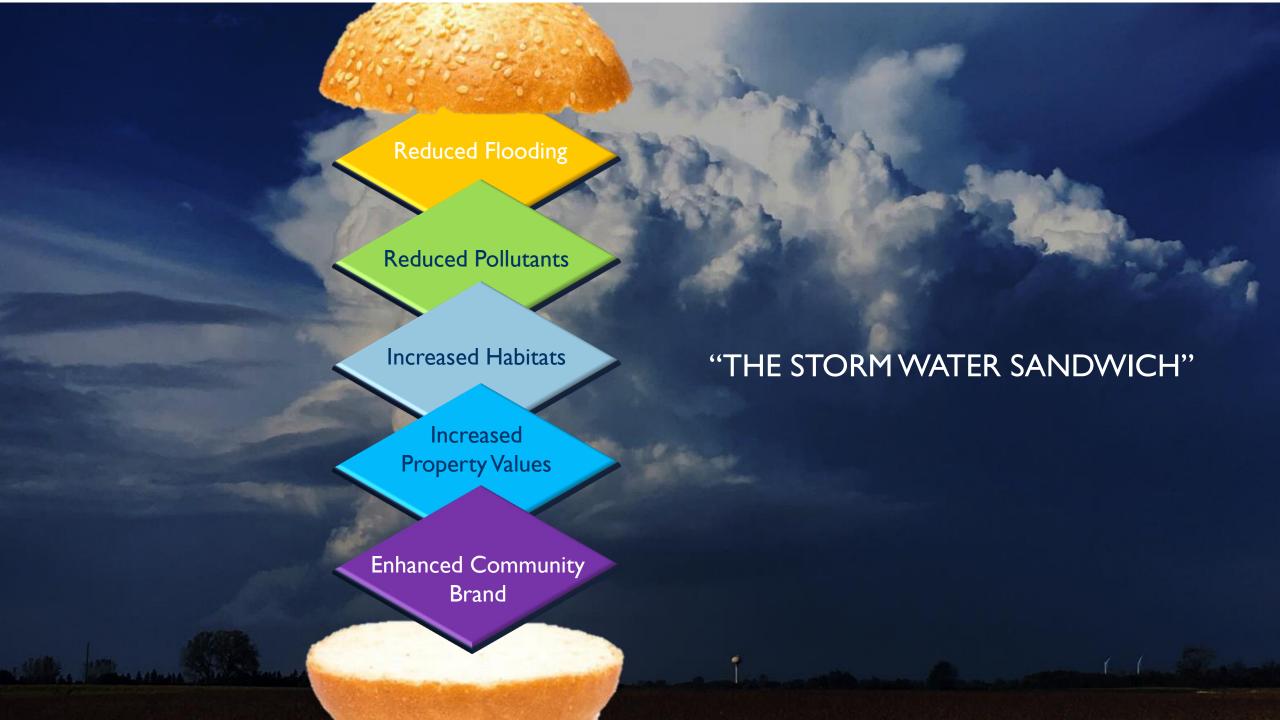


OUR RESPONSE

Champion \$1 Million for Three Community-based Watershed Restoration Plans

- 1) Pike River
- 2) Root River
- 3) Wind Point





BEGIN WITH THE END IN MIND





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ECONOMICS AND ENVIRONMENT

DOT, DNR, Kenosha County and Root-Pike WIN Restore North Branch While Expanding CTH KR

The expansion of highway KR yielded some unexpected benefits this week as a local and state entities got together to find a WIN/WIN for Foxconn transportation, Kenosha County... and the environment. The DOT looked at some innovative new approaches and is working with a local non-profit to exceed the requirements of water quality. In a statement today....

