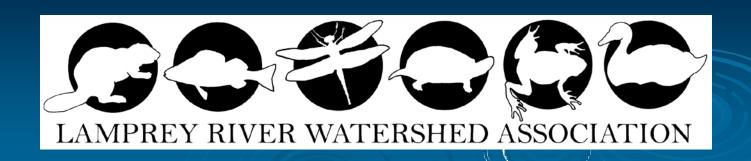
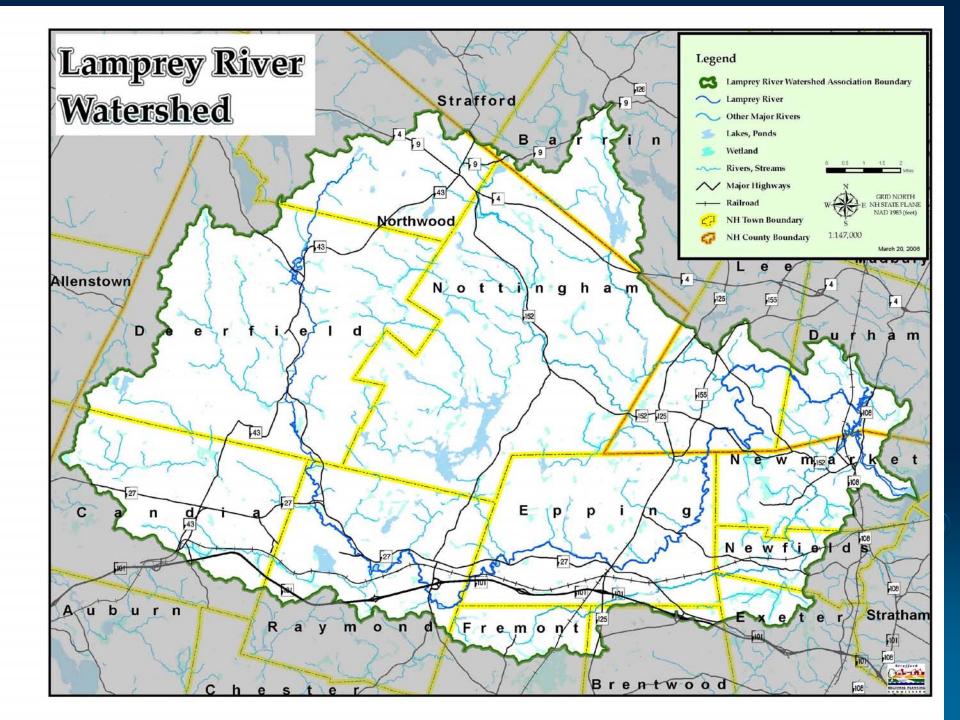
ASSESSMENT OF PHYSICAL FACTORS
AFFECTING WATER QUALITY IN THE LAMPREY
RIVER WATERSHED



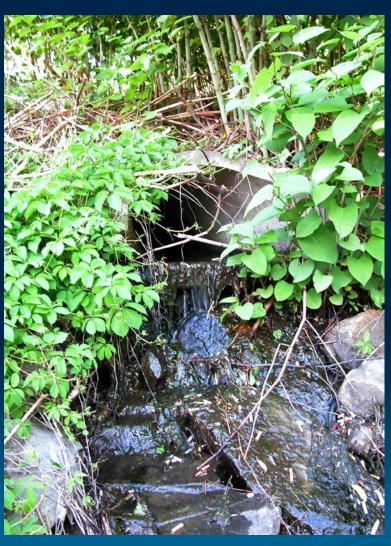


"Find it, fix it"

- Invasive species
- > Erosion
- Culverts
- Stream crossings
- > Stormwater outfalls
- > Buffer conditions
- Trash and debris
- Channel alterations



Preliminary Results



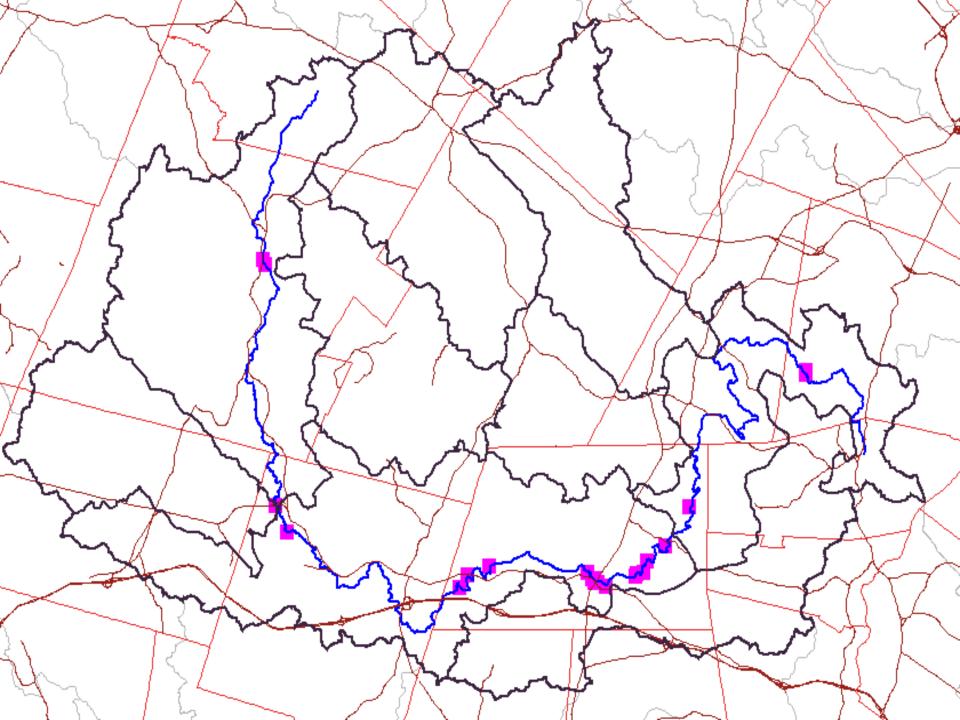
- Japanese knotweed is prevalent.
- Stormwater is going directly into the river.
- Many culverts are blocked with debris

Japanese Knotweed

Impacted Buffer

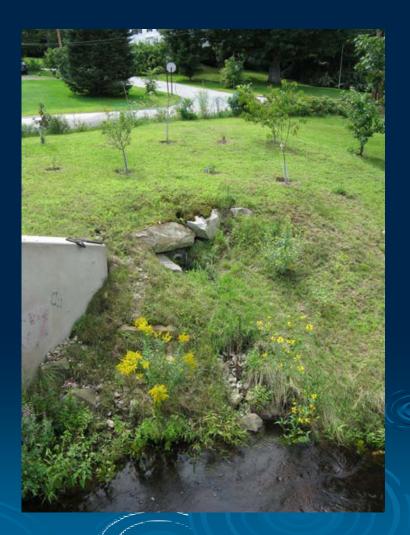
								ASSESS	ED BY:	
LAMPREY RIVER WATE					: 08/12/08		EF + KF			
SURVEY REACH: E.F.	I noto ib. (camera a re-					MARK: 46 Water Street				
MPACTED BUFFER#:	01		START I	AT 43	02'14	LONG	71 04	15 "	7	0 405
MPACTED BANK:	And the state of t									
LIOKING OWNSTREAM) Left Right NNASIVE PLANTS: None Pertial W Widespread SPECIE(S): プタタハモラル による によっている								ω€£D		
SUFFER WIDTH: SI <		25 - 50 FEET	□ 50−10	O FEET	100 - 50 FEI	T 🖸>1:	SO FEET			
LAND USE: (Facing downstream) Left B		- ₹	3 .	If Course	Park O	ther Public	c Smflh	Sogric	PARK	w/TK
Right	Bank Pas			Turf/lawn	Tall grass			Oth		
LAND COVER: Left E			3			120	12			
	Bank 🔲					M	<u> </u>	<u> </u>		
IS THE STREAM SHADEI	0? No	Partial	☐ Ful	<u> </u>	<u> </u>					
REFORESTATION POTENTIAL: appear to be in			on public land lan area does no led for any spect of area available	fic private	ted area on either a land that is pres specific purpose; a or planting adequa	ently used rvallable	Impacted area on private land where road; building encroachment or other feature significantly limits available area for planting			
		5		4	3		2	(
NOTES: RB - Japanese Lote close LB - LEFT BANE Japanet is	better.	, bo4 st	fill ligs	de nalize	Right band d bank wes	k st	أدمط رجمه	ldinisa 4	+ park	kiny
,										
4,										
Good buffers are wid minimize bank crosio			tation (i.e.	not lawn) next to str	eams the	at are used	to remov	e pollu	tion,

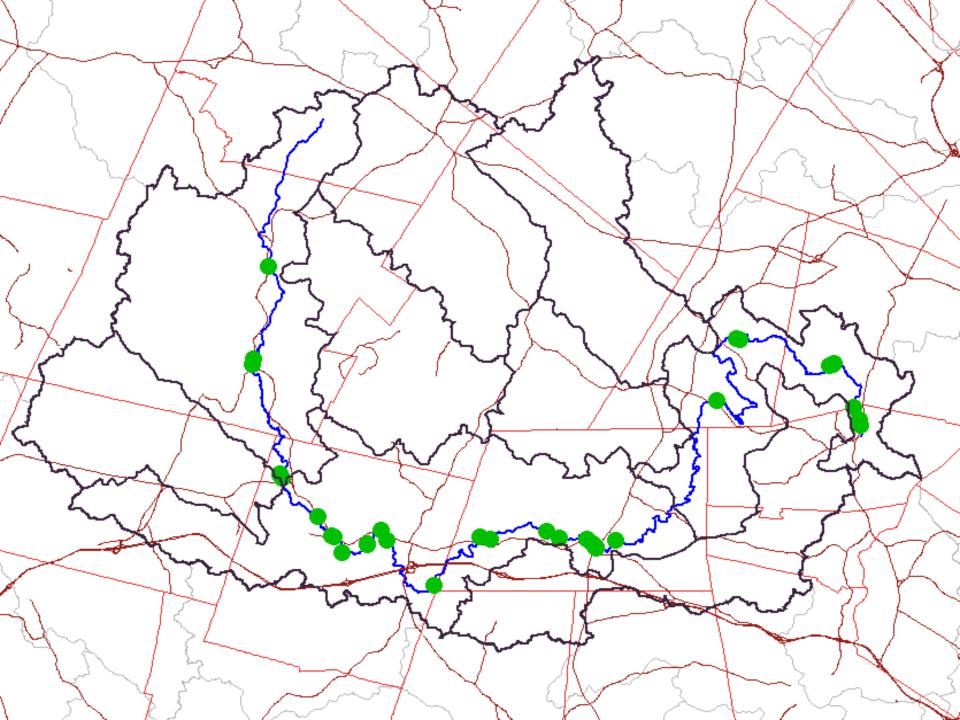




Stormwater Outfalls and Culverts







The Good News

	Whole Rea	org Ruc ach Assessment						
Survey Reacu I	D: 5 DATE: 8124 108	ASSESSED BY: ERIC FIRCENBAUM + KATIE FIELENBAUM						
START TIME	E: 3:00 AMONDLANDMARK: PACKERS FALLS BRIDGE	END TIME: 4:30 AMIN LANDMARK: 24-						
LAT 43° 06 '	<u>** " Long ½ • 57 • ** "</u>	LAT 43° 6 '16 " LONG 90° 57' 46"						
RAIN IN LAST 24 HO None	URS [] Heavy rain [] Steady rain [] Intermittent rain [] Trace	PRESENT CONDITIONS Heavy rain Steady rain Intermittent rain Clear Strace Overcast Partly cloudy						
SURROUNDING LAND		☐ Urban/Residential ☐ Suburban/Res 🎘 Forested ☐ Institutional ☐ Crop ☐ Pasture ☐ Wetland ☐ Other:						
SERVE AVENGE	CONDITIONS (check applicable)	REACH SKETCH AND SPIT BURNOT TRACKING						
FLOW AS % CHANNEL WIDTH	□ 0-25% □ 50%-75% □ 25-50 % □ 50 75-100%	Imple planar sketch of survey reach (this can also be done on the segment base map). Track locations and IDs for all sile problems within the survey reach as well as any additional features deemed						
DOMINANT SUBSTRU Silt/clay (fine or silt/clay) Sand (gritty) Gravel (0.1-2.5)	Slick) Cobble (2.5 –10") Boulder (>10")	appropriate. Indicate direction of flow SEE. ATTACHED MAP						
	Clear	while no impacted buffer had significant amounts of invasive						
AQUATIC PLANTS IN STREAM	Attached: ☐ none ☐ some ☐ lots Floating: ☐ none ☐ some ☐ iots	checies, there was a considerable						
WILDLIPE IN OR AROUND STREAM	(Evidence of) (X(Fish (X)Beaver (X) Deer □ Spails □ Other:	amount of buckthorn (assumed glossy) throughout this segment.						
STREAM SHADING	What percentage of the surface of the water is shaded by vegetation (assuming a sunny day)? 30 76							
CHANNEL DYNAMICS Unknown	Downcutting Widening Headcutting None/ Nothing notable							
CHANNEL DIMMENSIONS	Height: Left bank (ft) Right bank (ft)							
(FACING DOWNSTREAM)	Width: Bottom(ft) Top(ft)							
	(BADH'A CCESSIBILITY							
Good: Open area in public ownership, easy access from a road for a cancellayak to be launched or parking for	Fair: Forested or developed area adjacent to stream. Access requires tree removal or impact to allow for road access							
a few vehicles.	landscaped areas ediacent to river.	·						

- Buffers along most of the river are over 300 feet.
- Upper watershed has few identified problems.
- Erosion is fairly localized.

Trash and Debris



Erosion



"Fix it"

- Map more stormwater outfalls in more of the watershed
- More work on invasive species control and eradication
- Culvert clean-ups
- Continue to promote ways to protect the river



What did it take?

- > 40 + volunteers.
- Over 400 hours of volunteer time!
- > 500 data sheets
- And only one volunteer accidentally in the river!



Next Steps

- Final report out in early 2009
- Present findings to watershed towns.
- Conduct the survey on the tributaries and tidal portions of the river.



