



TECHNICAL ASSISTANCE

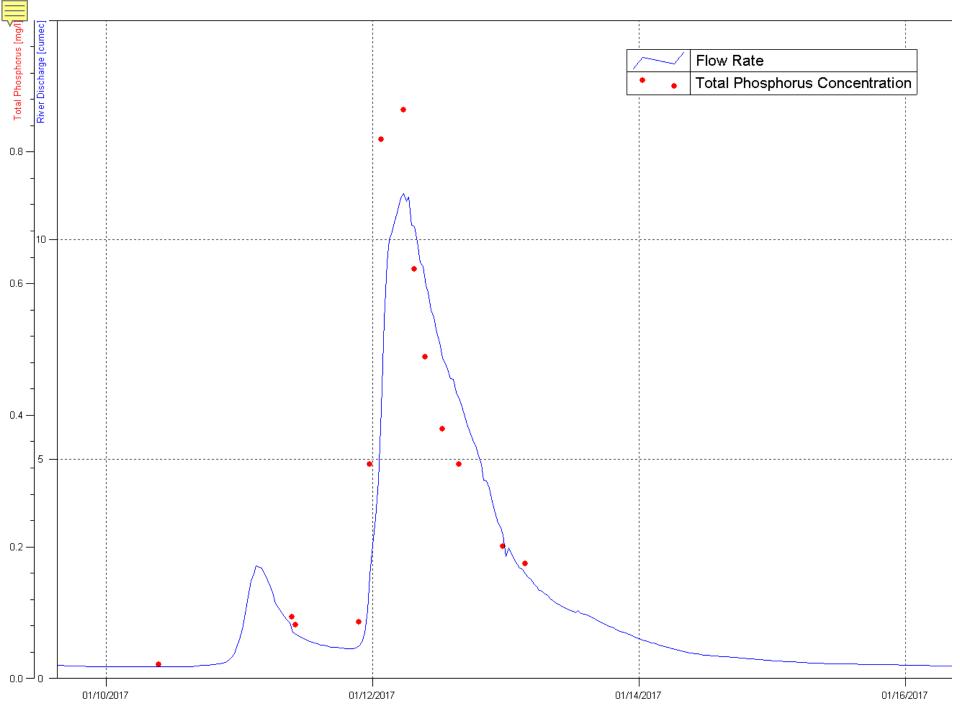
FUNDING MONITORING

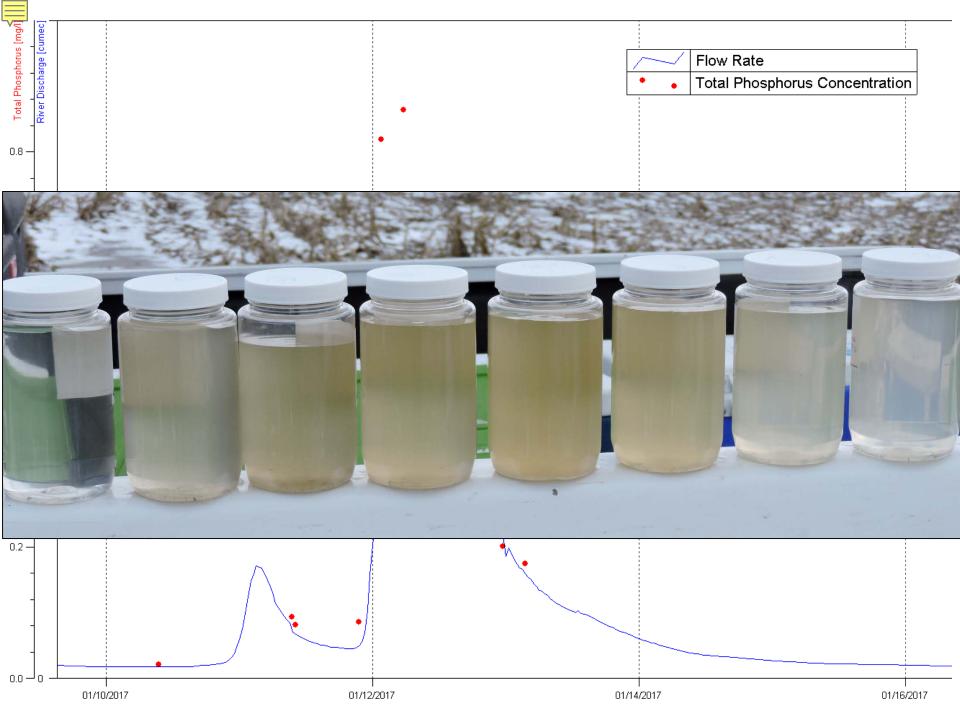






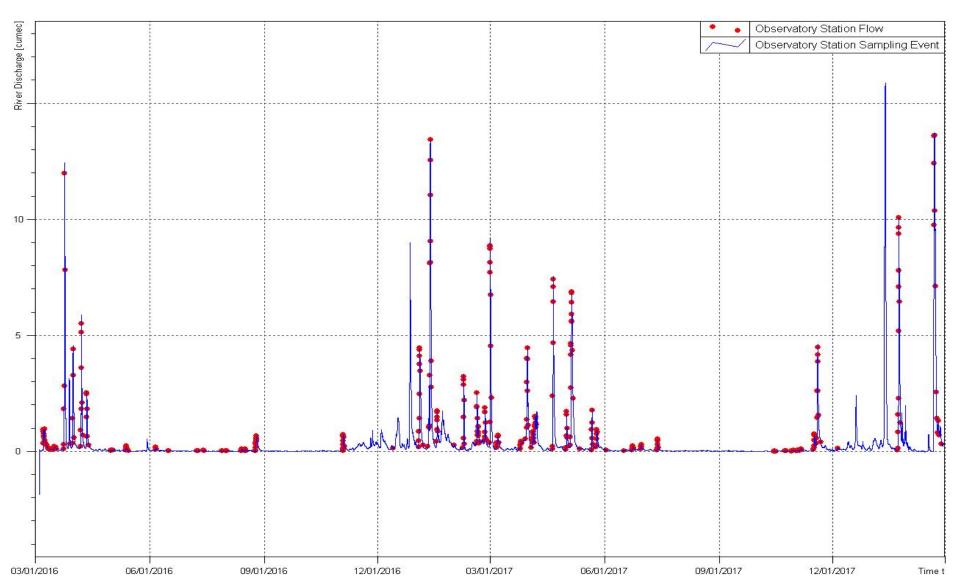






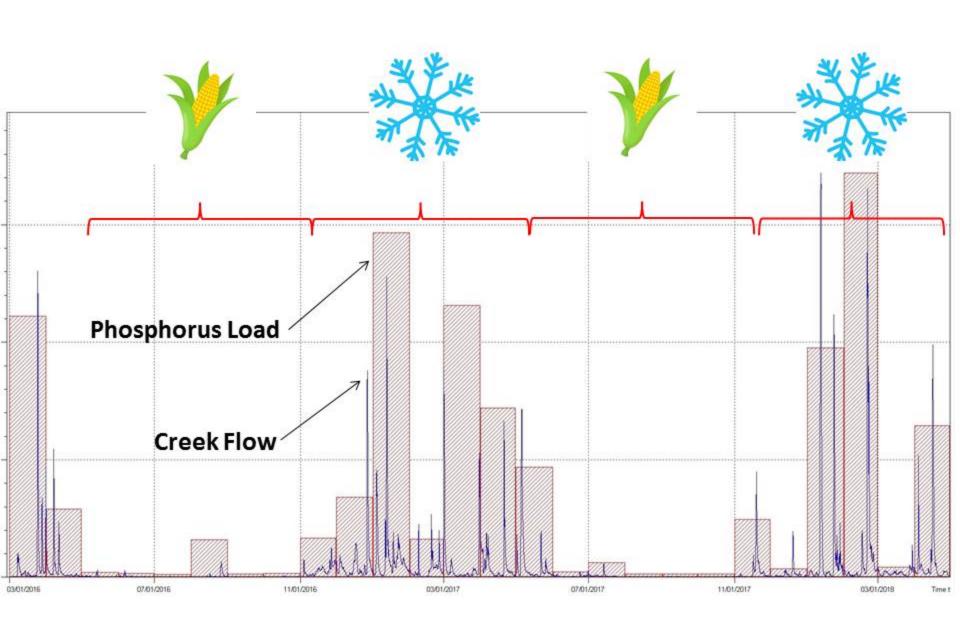


High-Frequency Sampling





Non-Growing Season is Crucial





- 0.67 lbs/ac avg. annual P load for Medway Creek
- 0.55 lbs/ac avg. annual P load for Thames River



Erosion Control Options: WASCoBs and Blind Inlets Systems Approach



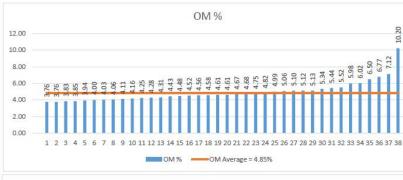


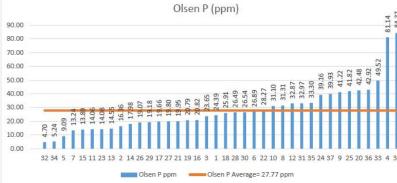
Buffer Strips

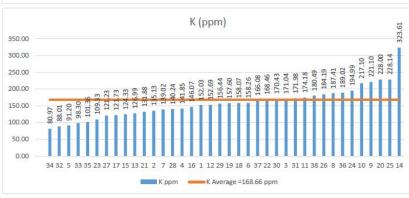




Soils and Land Management Data





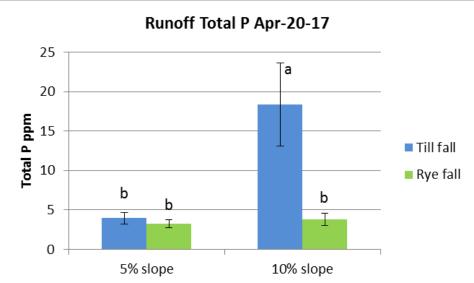


Field #: 27B	Year				
	2012	2013	2014	2015	2016
Crop	Soybeans	Wheat	Corn	White Beans	Soybeans
Cover Crop	None	None	None	None	None
Primary Tillage (prior to crop)	No-Till	No-Till	DS	No-Till	No-Till
Date of Primary Tillage	N/A	N/A	10/1/2013	N/A	N/A
Secondary Tillage	N/A	N/A	CUL	N/A	N/A
Date of Secondary Tillage	N/A	N/A	4/25/2014	N/A	N/A
Tillage Practice (Upslope vs. Cross Slope)	Upslope	Upslope	Upslope	Upslope	Upslope
Planting Date	5/15/2012	10/1/2012	5/1/2014	6/1/2015	5/15/2016
Residue after Planting (%)	30-59%	<9%	10-29%	10-29%	<9%
Phosphorous (P ₂ O ₅) addition (lbs/ac)	0	64	116	52	0
Method of Application	N/A	Broadcast	Broad/Band	Broadcast	N/A
Timing	N/A	Fall	Fall/Spring	Spring	N/A
Potassium (K ₂ O) addition (lbs/ac)	0	32	92	0	0
Method of Application	N/A	Broadcast	Broad/Band	N/A	N/A
Timing	N/A	Fall	Fall/Spring	N/A	N/A
Nitrogen addition (lbs/ac)	0	135	190	11	0
Method of Application	N/A	Broadcast	Broadcast	Broadcast	N/A
Timing	N/A	Spring	Spring	Spring	N/A
Harvest Date	10/1/2012	8/1/2013	10/25/2014	9/15/2015	10/1/2016
Yield (bu/ac)	50	90	170	40	50
Notes:		200 lbs/ac of 8-32-16	100 lbs MAP & 100 lbs/ac of potash in fall. 200 lbs/ac of 8-	Soybeans were replanted to White Beans with 100 lbs/ac	No fertilizer applied this year

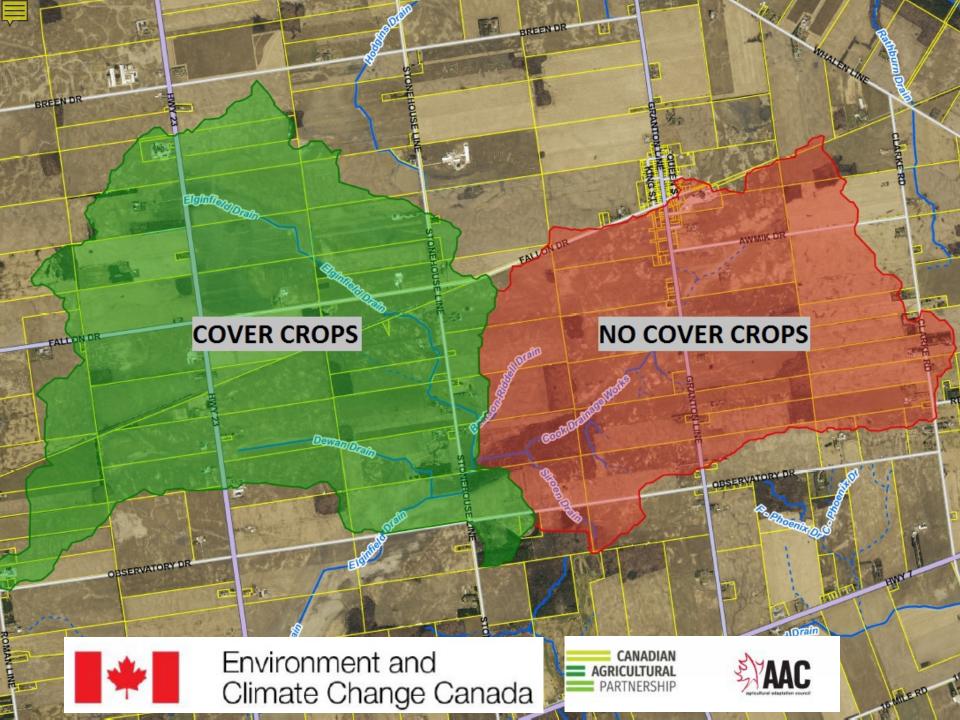


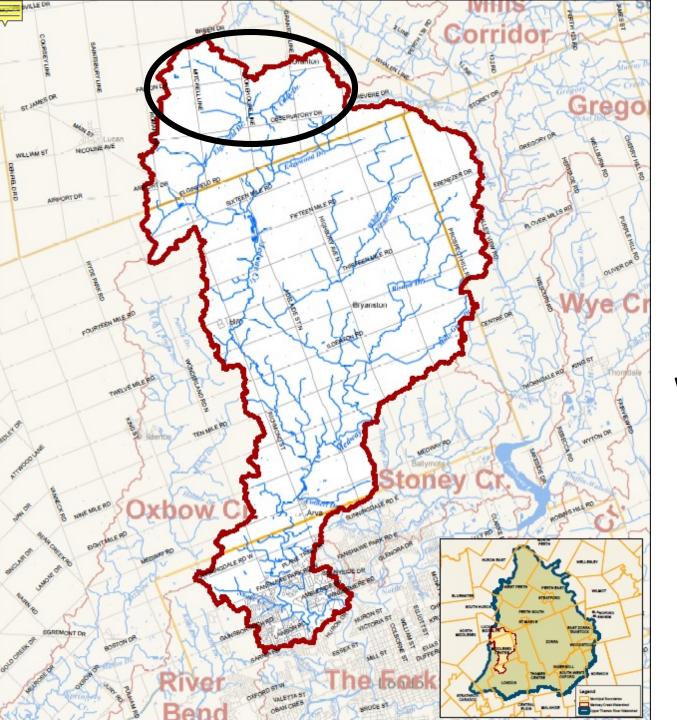






TP concentrations reduced up to 80% with cover crops!





Medway Watershed



Questions?



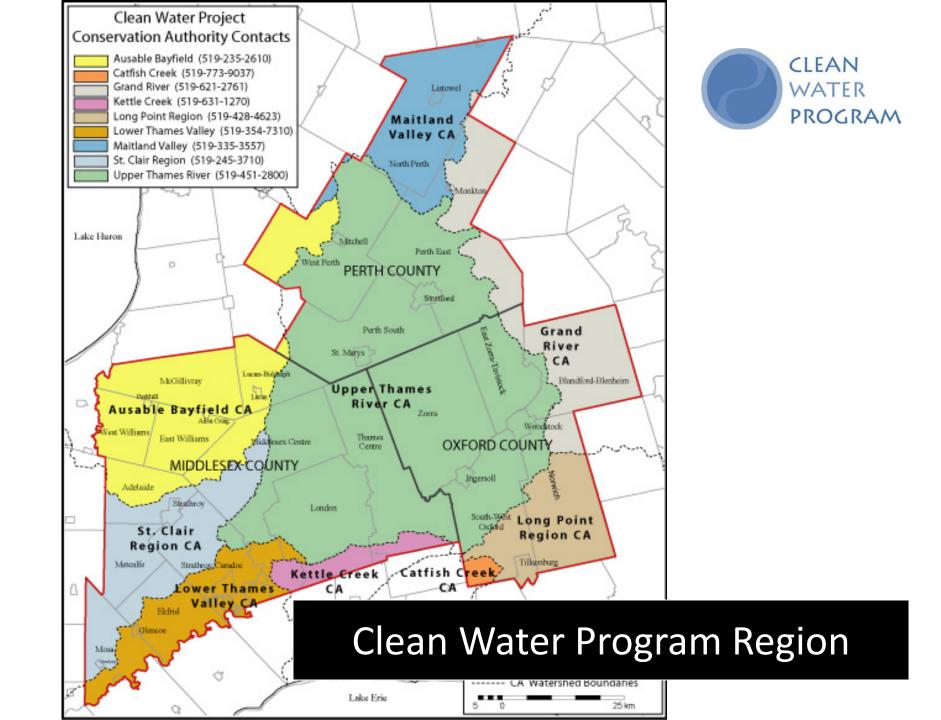




What is the Clean Water Program?

- A <u>technical</u> and <u>financial</u> assistance program to improve and protect water quality
- A <u>research</u> and <u>demonstration</u> component to help develop and share new practices and solutions for surface water and groundwater quality issues
- A <u>marketing</u> and <u>education</u> component to ensure knowledge is passed along to landowners, municipalities and the media in an effective and understandable way

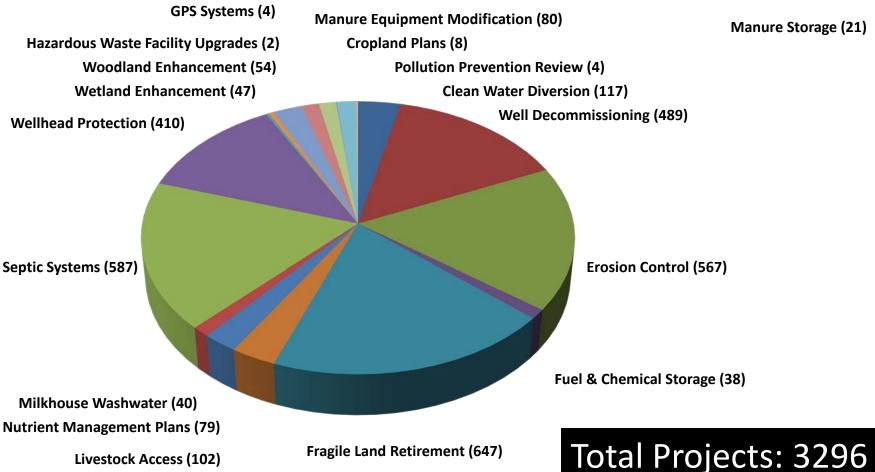




CWP Achievements

Livestock Access (102)





Fragile Land Retirement (647)





Wetland Restoration



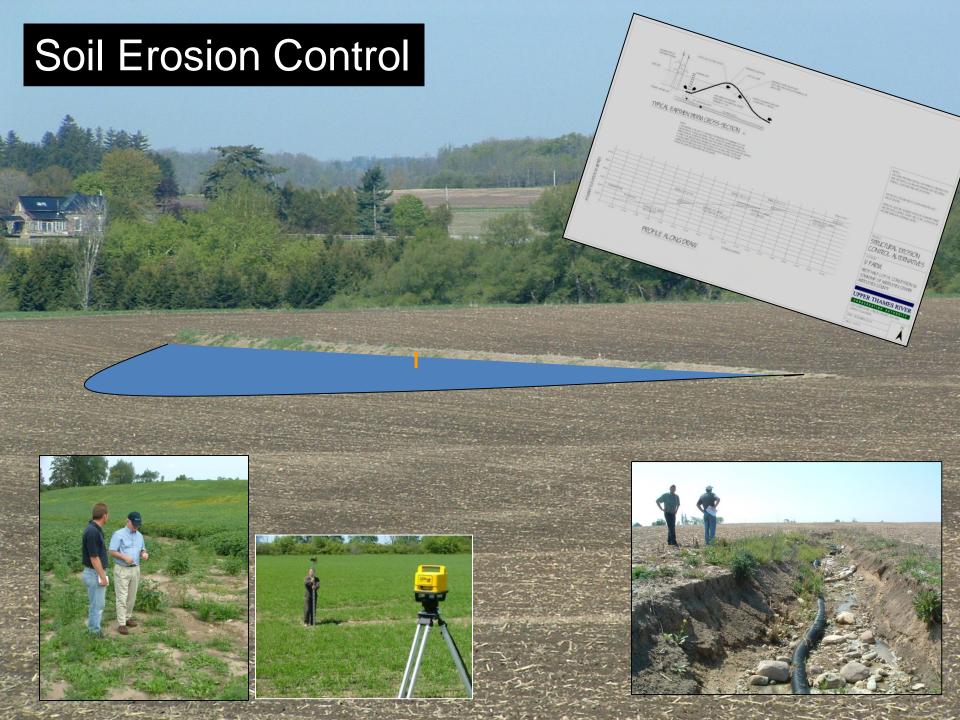
Well Decommissioning: Prevent Groundwater Contamination

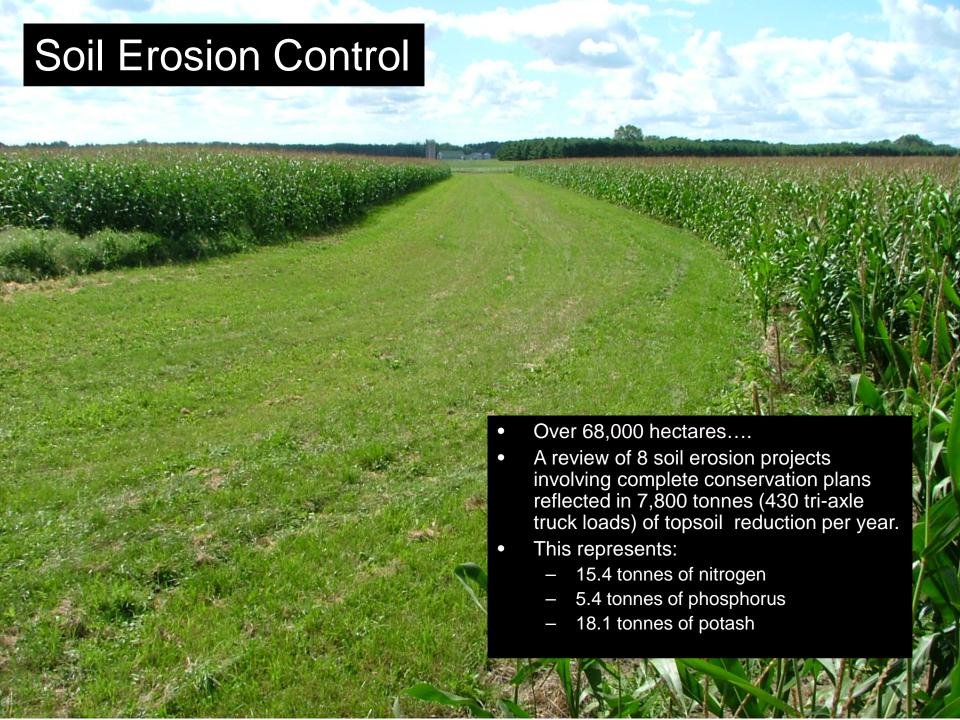














Research & Demonstration

- Controlled drainage
- Saturated buffers
- Nutrient filters
 - Red sand
 - Slag
 - Woodchips
 - Chitosan
- Bunker silo runoff
- Low Impact Development

- Constructed wetlands
- Vegetated filter strips
- Surface inlets
- Stream restoration
- Butternut Archive
- Cover crops
- Dam & barrier removal
- Truck washwater treatment
- On-farm stormwater management











Getting the Information Out - www.thamesriver.on.ca



Local Landowners tell Conservation Stories

Upper Thames River Conservation Authority (UTRCA) staff met with local landowners over the winter months to gather stories and advice about soil and water conservation techniques