Macatawa Watershed Road-Stream Crossing Inventory Project

KELLY GOWARD AND CAROLYN ULSTAD

MACATAWA ARFA COORDINATING COUNCIL

Outline

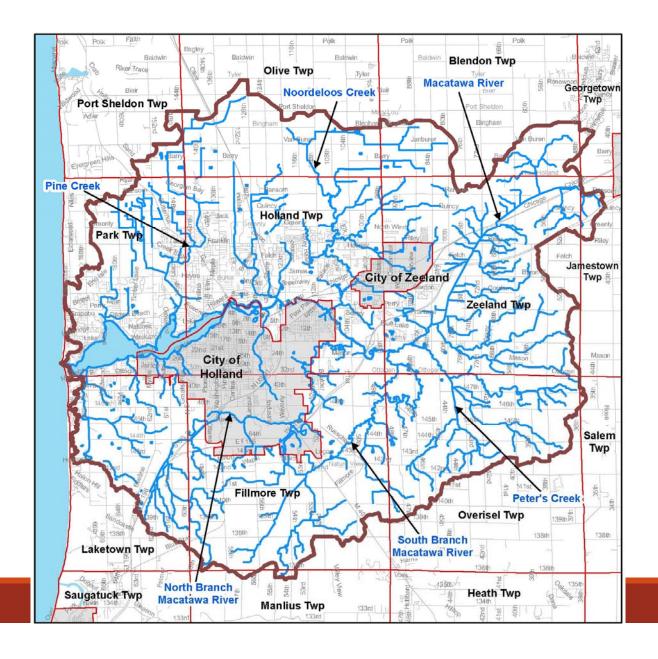
Macatawa Watershed

Pre-Inventory Prep

Accomplishments

Lessons Learned





Macatawa Watershed

2000 TMDL for phosphorus (90% from non-point sources)

Landuse: 46% agriculture, 33% urban, 19% forested/open, 2% water/wetland

Watershed Management Plan updated and approved in 2012

RSX identified as a moderate priority cause of sediment and hydrology impairments

2004 and 2008 BEHI surveys completed – 121 out of ~620 crossings

2008: 10% were high risk, 39% were moderate

Pre-Inventory Prep

SCOUTING SITES

EQUIPMENT

VOLUNTEER RECRUITMENT & TRAINING

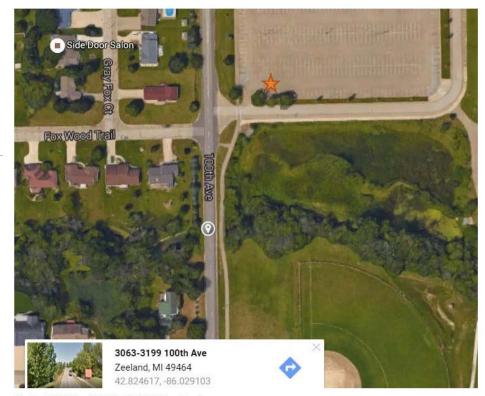
Scouting Sites

Visited all 55 sites to look for parking and access concerns

Letter to adjacent landowners

Created "fact sheets" for each site

Created Google Map



Site ID: NC-11 (Sec 13, T5N, R15W, Holland Twp)

Stream: Brower and No. 39 (regulated)

Where to park/Traffic Volume

Recommend parking at West Ottawa School parking lot

Traffic: Moderate

Site access notes

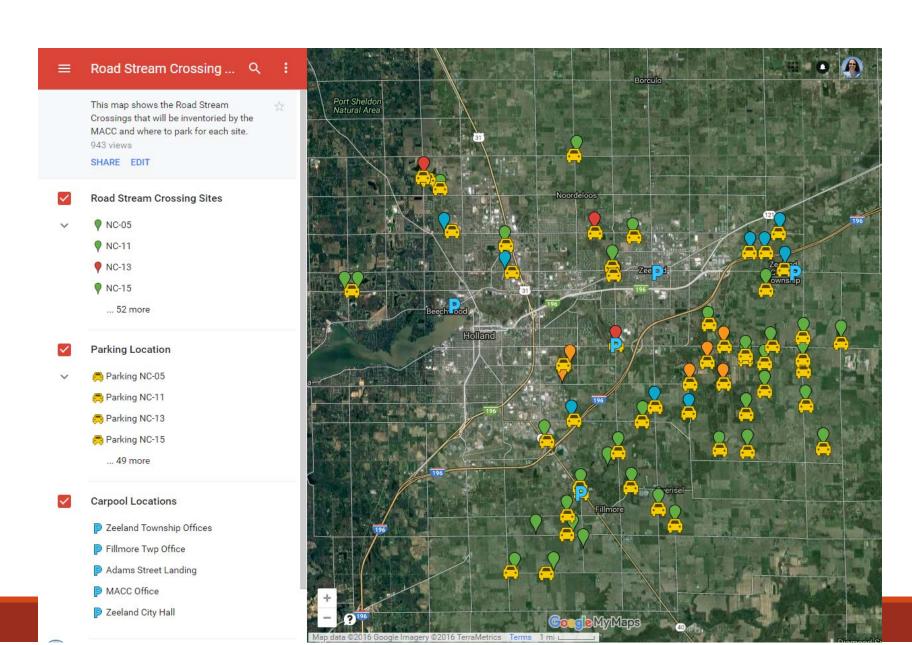
East/upstream: Site is accessible

West/downstream: Enter in from side yard

Conditions/Vegetation

East/upstream: Steady flow, about 12 feet wide, 1-2 feet deep, vegetated

West/downstream: Steady flow, 2-3 feet deep, about 10 feet wide, Japanese knotweed along roadside



Equipment

Purchased 4 sets

Backpacks to transport

Survey pins

Range finder/pace wheel

Trash bags and gloves

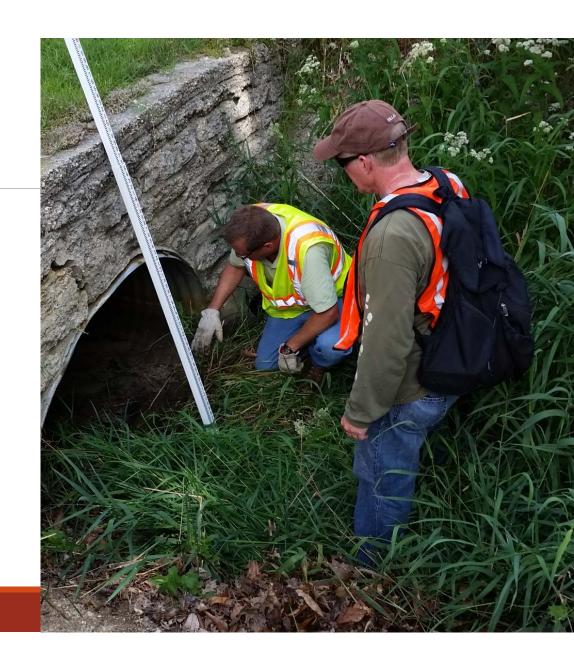
Bug spray and sunscreen

Quick reference guide

Noxious plant fact sheets

Duct tape

Copies of letters/fact sheet



Volunteers!

Interest and availability survey

18 responses

2 team leaders – 1 engineering professional

GVSU Students – SWCS Chapter

Road Commission and Drain/Water Resource Commissioner's staff

Training: July 12

Release and Liability Waiver



Accomplishments

40 of 56 sites completed (56th site added by volunteer)
7 events (Saturday AM, weekday AM/PM and evening)
25 unique volunteers (7 repeat)

This winter:

- Data entry
- Plan for remaining 16 sites
- Long-term plan for rest of watershed





