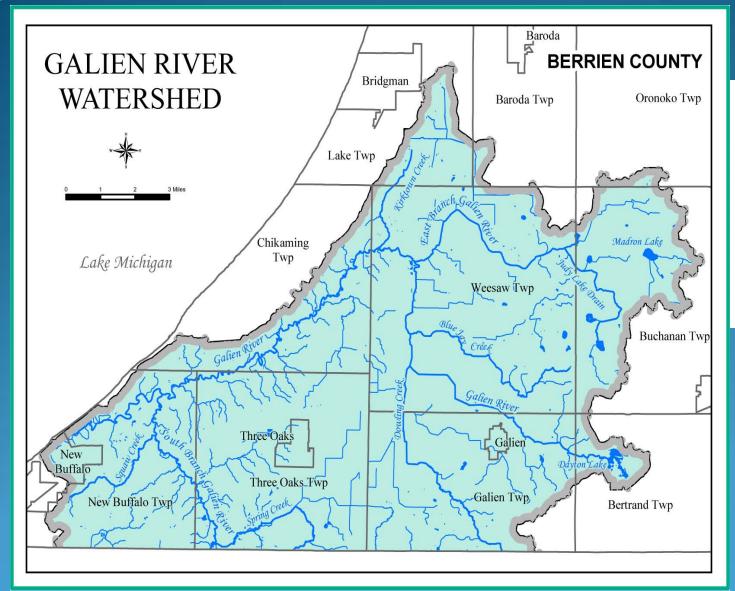
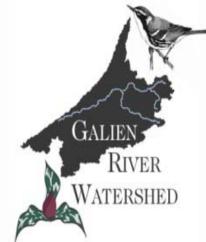
Welcome!







Workshop Overview

- 6:00 **Welcome/Introductions** Marcy Colclough, *Southwest Michigan Planning Commission*
- 6:15 **The Glorious Galien** Peg Kohring, *The Conservation Fund*
- 6:30 Overview of Mapping Exercise and Concepts Marcy Colclough
- 6:45 **Mapping Exercise** All
- 7:15 Report/Discuss All
- 7:30 Prioritize Areas All
- 7:45 Land Protection/Management Options Peg Kohring
- 8:00 Rain Garden Tour Kris Martin, Southwest Michigan Planning Commission

Infrastructure?

"the substructure or underlying foundation on which the <u>continuance and growth</u> of a community depends"

Connectivity required

Management and Funding needed

✓Infrastructure is a necessity not an amenity

Key to Healthy People, Watershed and Economy ECOSYSTEM SERVICES

Water Related

- Flood control
- Water cleansing
- Groundwater recharge (Drinking water)
- Erosion control

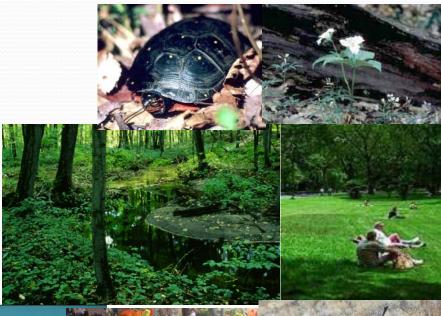
Air Related

- Temperature moderation
- Air cleansing

Other

- Nutrient cycling
- Wildlife habitat
- Pollination
- Food Production







Green Infrastructure



An interconnected network of green space and farmland that conserves natural ecosystems and functions and provides associated benefits to humans.



Elements of Green Infrastructure

Water related features - rivers, lakes, wetlands, riparian areas, floodplains, groundwater recharge areas

Land features - forests, prairies, sand dunes, prime farmland

Recreation & Protected lands – parks, beaches, trails





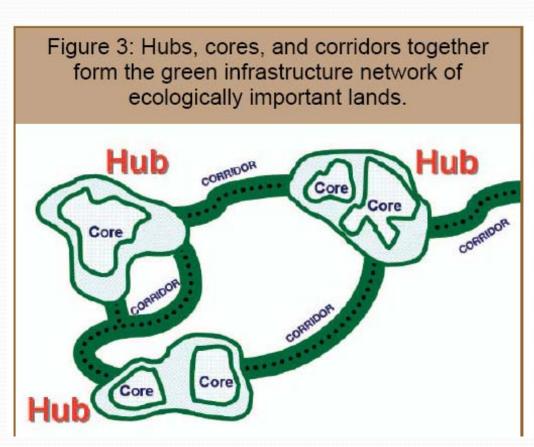




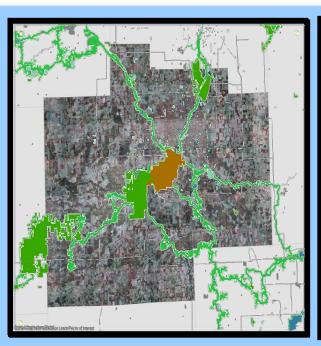


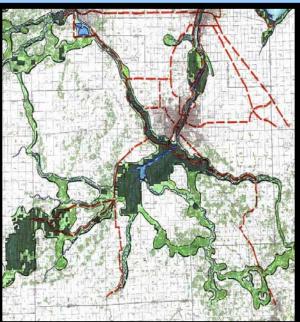
Green Infrastructure

- Connectivity required
- Management and Funding needed
- ✓Infrastructure is a necessity not an amenity



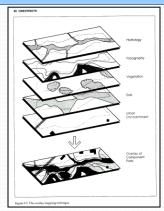
Critical Area Map







Inventory



Public Input



Final Map

You and Green Infrastructure

Voluntary Actions of Landowners

- Protect or restore forested or grassed buffers along rivers, creeks, drains
- Develop and implement management plans for forestry and agricultural activities
- Plant **native species** and **rain gardens**
- Maintain or restore wetland areas
- Implement **Agricultural Best Management Practices** (no till, cover crops, nutrient management, etc)
- Consider land protection options (conservation easements, purchase of development rights, etc.)





Your Community and Green Infrastructure

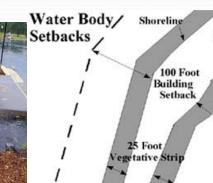
Where & How Land Is Developed

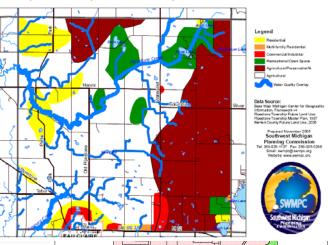
✓ Preserve open space, farmland and critical environmental areas

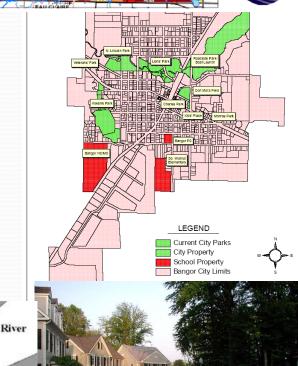
✓ Strengthen and direct development towards existing

√ Take advantage of compact building design



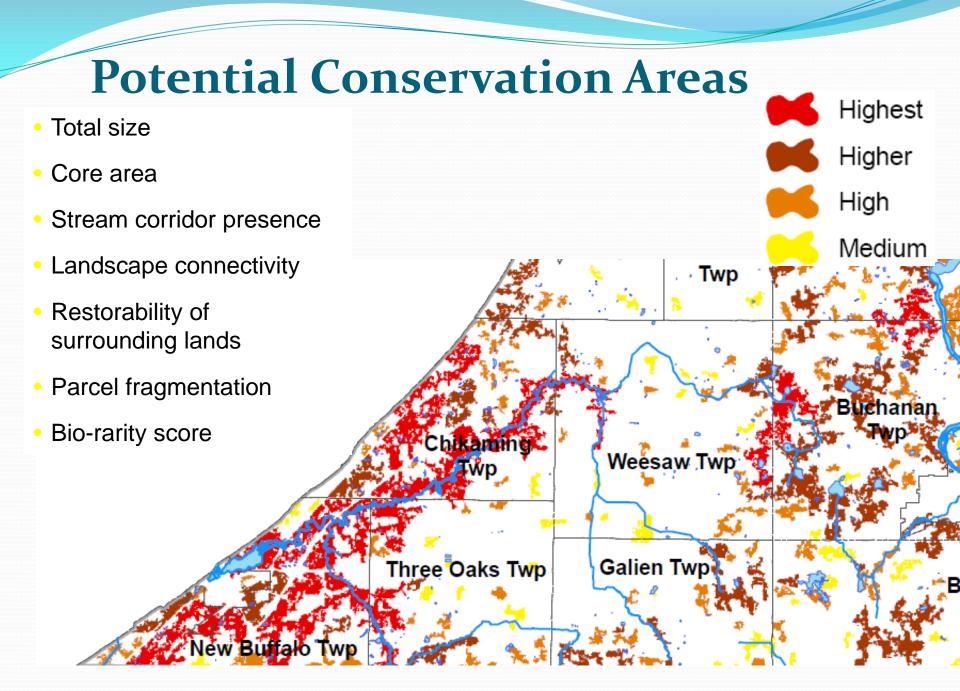


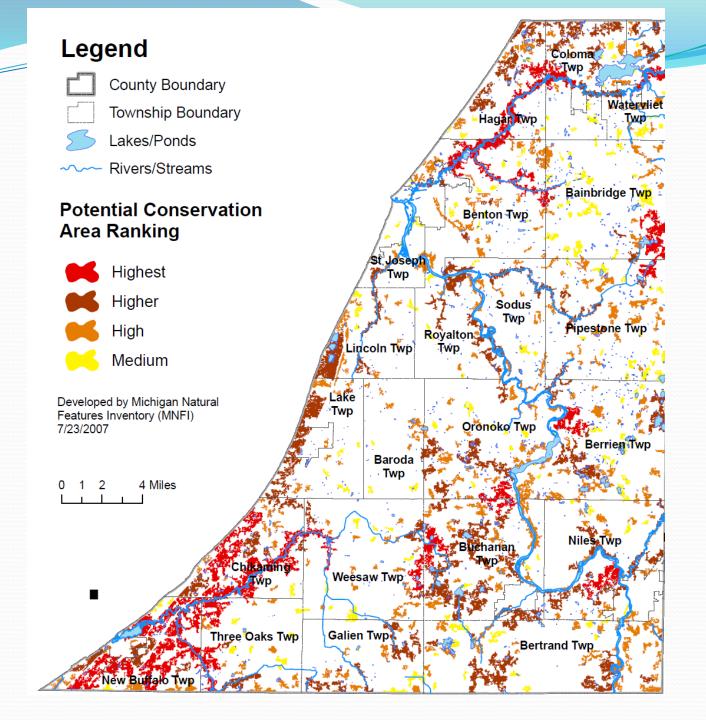


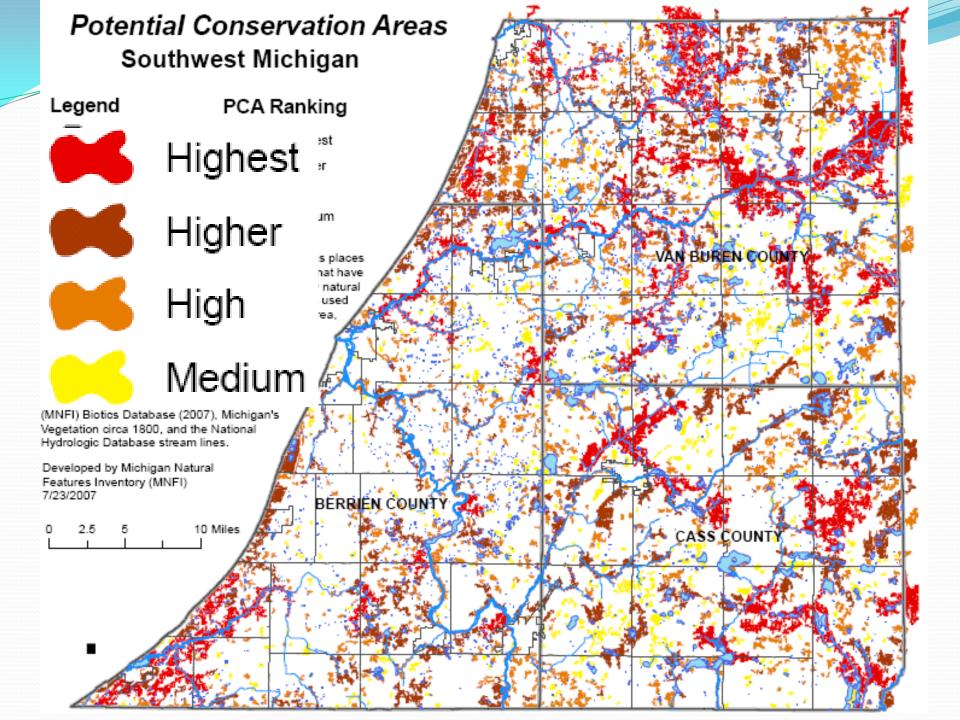


Review Maps

- 1. Base map Major roads, municipal boundaries, streams, watershed boundary, recreation and protected areas (may not be complete), parcels
- 2. Aerial photo with Potential Conservation Areas
- 3. 2000 Land Use/Cover and Lost Wetlands (forested areas, built up areas, orchards/vineyards)
- 4. Prime Farmland
- **5. 6. 7. - Wetland Functions** (surface water detention, sediment retention, nutrient transformation)









Wetland Functions Evaluated

- Flood water storage Reduce Flooding
- Streamflow maintenance Stable Flows
- Nutrient transformation Less Vegetation
- Sediment retention Cleaner Water
- Shoreline stabilization Less Erosion
- Groundwater recharge Drinking Water
- Fish and Wildlife Habitat Fishing, Hunting





Flood Water Storage

56% loss of function

Surface Water Detention

Historic Med Significance

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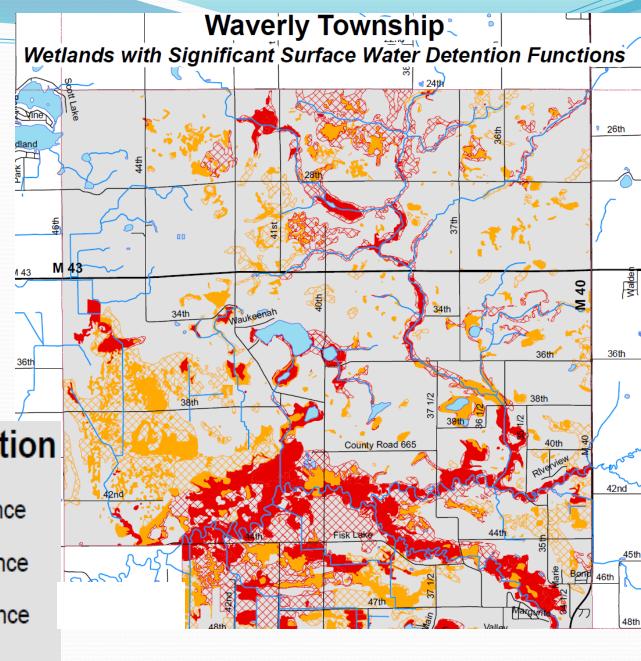
Historic High Significance



Existing Med Significance



Existing High Significance



Sediment Retention

55% loss of function

Sediment Retention



Historic Med Significance



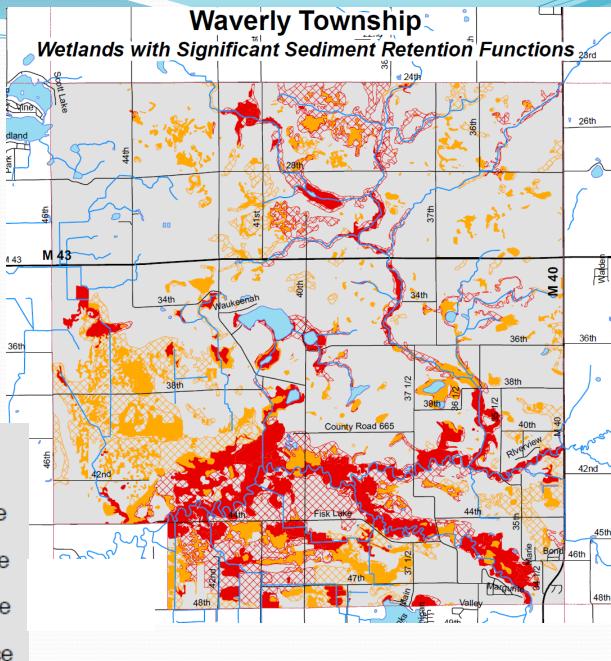
Historic High Significance



Existing Med Significance



Existing High Significance



Nutrient Transformation

50% loss of function

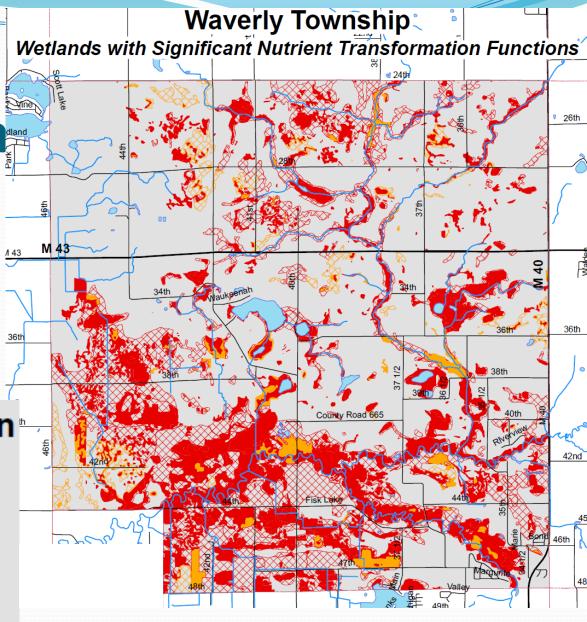
Nutrient Transformation



Historic High Significance

Existing Med Significance

Existing High Significance



MAPPING

- REVIEW
- COLOR ON THE CLEAR BASE MAP
 - GREEN existing park/protected area
 - BLUE important natural areas
 - PURPLE important farmland
- REPORT Results to Group
- PRIORITIZE