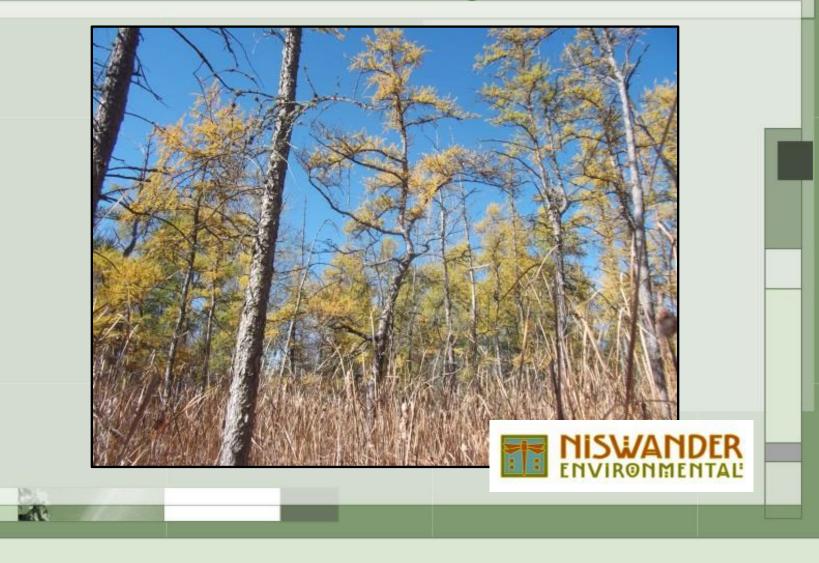
### Rochester Hills - Natural Features Stewardship Program

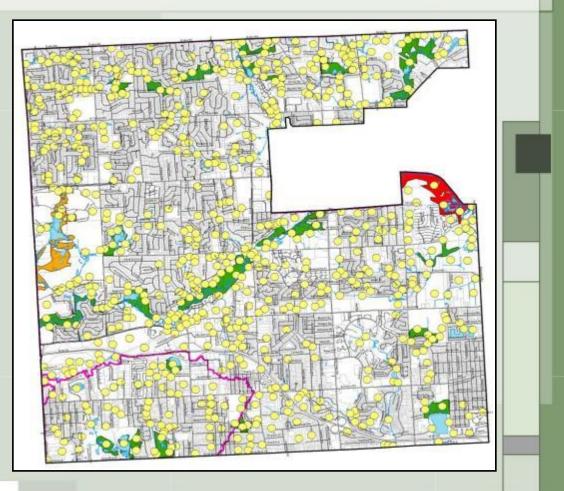


### Open Space Millage

- In September 2005, a 0.3 mill 10-year Open Space Millage was passed to acquire and preserve natural green space in their community.
- The Rochester Hills <u>City Council</u> established the nine member <u>Green Space Advisory Board</u>(GSAB) for the purpose of developing strategies and making recommendations regarding the expenditure of millage funds to:
  - Permanently preserve natural green spaces, wildlife habitats and scenic views
  - Protect woodlands, wetlands, rivers and streams
  - Expand the Clinton River Greenway and other trail corridors

#### Niswander Environmental's NFI from 2005

- Determined what the community has
- Evaluated existing trends
- Identified priority natural areas
- Used as a basis for developing ordinances
- Provided a valuable tool for evaluating proposed development from a landscape perspective
  - Survey Locations
  - Photo Locations

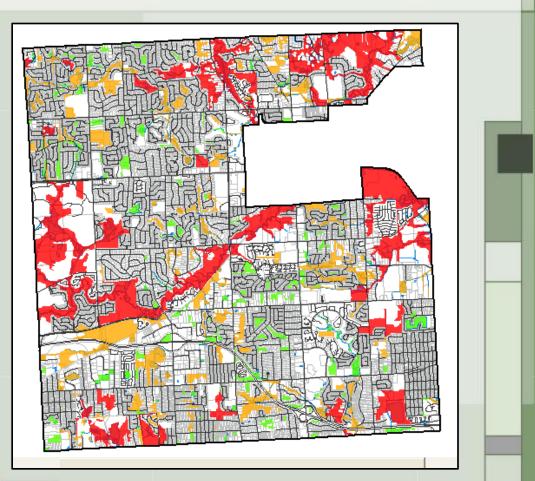


### Natural Areas

- Ranking Criteria

   (based on 2004
   Oakland County
   Potential
   Conservation/Natural
   Areas Report)
- Includes Field Data





### Natural Areas with Land Use





### Green Space Properties Acquired



### Sheldon-Mead Parcel



- Priority 1 Natural Area
- ~19 acres
- 80% forested property
- Diverse in terms of vegetation, habitat type and age class
- On-site wetlands buffer clear creek
- Provides a continuous green corridor with adjacent properties
- Invasive Phragmites





A







# Childress / Cloverport Parcels



# Harding Parcel







- Priority 1 Natural Area
- ~27 ac
- Locally rare wet meadow with fen characteristics
- Forested wetlands featuring vernal pools
- Invasives are common, particularly honeysuckle, buckthorn, and bittersweet





### **Rivercrest Parcel**









1

- Priority I Natural Area
  - ~2 ac
- Natural buffer to the Clinton River
- Moderately High Quality Scrub-Shrub Wetland Habitat
- Degraded Old Field dominated by invasive shrubs





### Environmental Stewardship

"... is the responsibility for environmental quality shared by all those whose actions affect the environment."

- EPA Office of Strategic Environmental Management



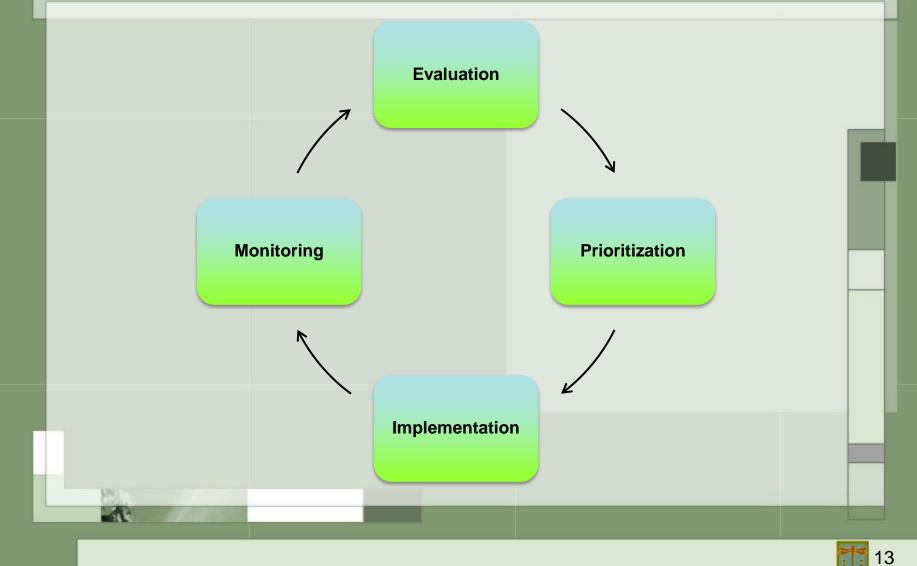
# Environmental Stewardship

- Permanently preserve natural green spaces, wildlife habitats and scenic views
- Protect woodlands, wetlands, rivers and streams

It is not enough to just purchase open space, it must also be managed to ensure the preservation of the functions and values!



### The Stewardship Process



#### What is Adaptive Management?

"... is a structured management approach for addressing uncertainties by testing hypotheses, linking science to decision making, and adjusting implementation, as necessary, to improve the probability of restoration success".

- The Comprehensive Everglades Restoration Plan

# Steps

- Year 1 Evaluation and Prioritization
- Years 2 -5: Implementation
- Year 6 and beyond- Maintenance & Monitoring

# Long Term Stewardship Goals

### <u>Year 1: \$100,000 - \$200,000</u>

- Detailed site assessments & prioritization = \$40,000-\$75,000
- Develop long-term plan for each Green Space property = \$40,000-\$75,000
- Demonstration Areas (i.e., invasive species control, prescribed burns, etc.) = \$20,000-\$50,000



### Stewardship

### Years 2-5: \$150,000 - \$235,000

- Preservation (treat high-quality areas) = \$25,000-\$50,000
- Restoration (treat degraded areas)= \$50,000 \$70,000
- Enhancement (seeding and native plantings) = \$50,000 \$70,000
- Monitoring & Evaluation = \$10,000-\$20,000
- Education = \$15,000-\$25,000





### Maintenance & Monitoring Period

#### Years 6 and beyond: \$150,000 - \$200,000

- Preservation (maintain high-quality areas) = \$5,000-\$10,000
- Restoration (treat degraded areas)= \$20,000 \$40,000
- Enhancement (native seeding and plantings, bank stabilization)
   = \$50,000 \$100,000
- Monitoring = \$5,000 \$10,000
- Education = \$10,000





### Successful Long Term Management

### Relies Upon:

- Site Assessment & Prioritization
- Preservation and Restoration
- Maintenance & Monitoring
- Education
- Involvement
- Ownership
- Commitment







# Community Involvement

- Teamwork
- Engaging Citizens
- Corporation involvement
- Non-Profit Agencies



### Examples

- Wayne Co. Grow Zones
- "you can scale your expenditures to match your budget. Based on our evaluation, we anticipate annual expenditures to be \$200k per year"
- Adaptive management



### Mike Hartner

- Projected / Remaining Budgets
- Anticipated Acquisition Costs
- Goals of stewardship



# Questions

