

Draft Kane County 2040 Green Infrastructure Plan

Kane County Energy and Environment Committee

October 10, 2013



Draft Kane County 2040 Green Infrastructure Plan



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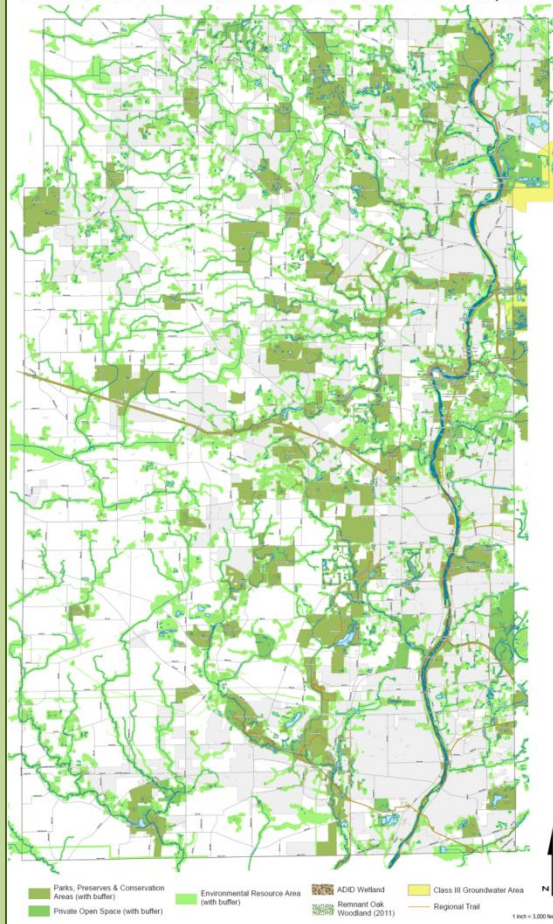
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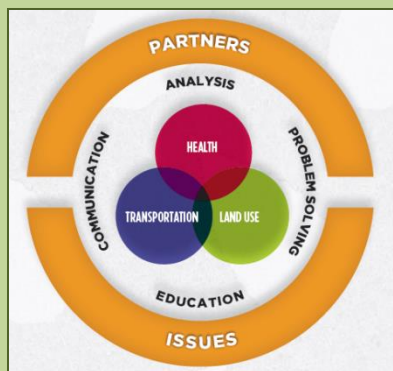
DRAFT GREEN INFRASTRUCTURE MAP - JUNE 7, 2013



KANE COUNTY 2040 PLAN

Kane County Planning Cooperative

June 7th, 2013



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Goals

- *Leader & Role Model in Kane County*



Objectives

- A. *Public awareness, education & support.*
- B. *Review & amendments to ordinances to allow Conservation Design.*

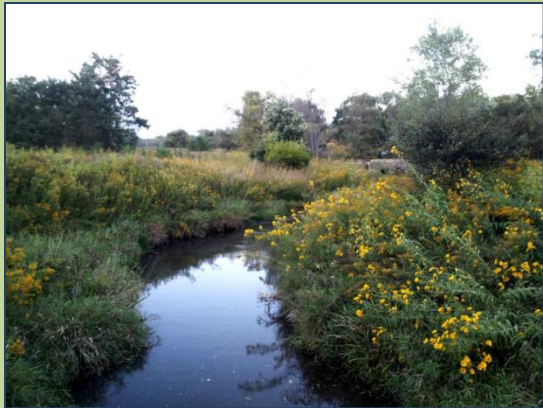
Actions

1. *Coordinate public access, education & volunteers.*
2. *Partner for watershed plans implementation.*
3. *Educate about strategies at the regional, community, neighborhood & site scales.*

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Goals

- *Protect water supply & quality*



Objectives

- A. *Recognize importance of sustainable water supply.*
- B. *Promote stormwater & groundwater BMPs*

Actions

1. *Illinois State Water Survey/Geological Survey Kane County Water Resources Investigations.*
2. *Reclaim & reuse water.*
3. *Promote compact, mixed-use & conservation design development.*

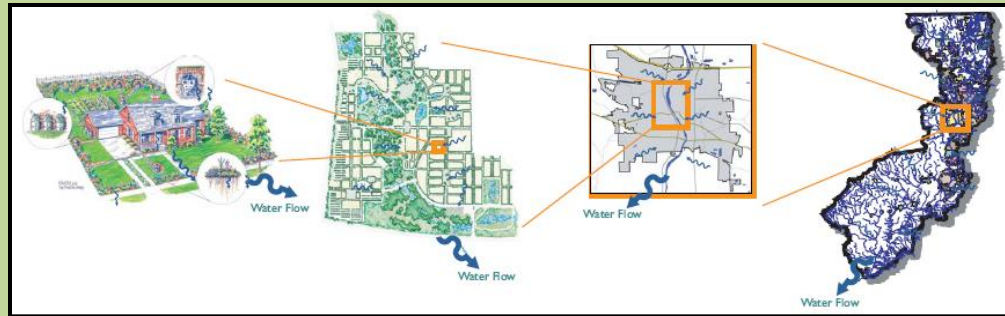
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Goals

- *Preserve natural resources*

Objectives

- A. *Address climate change mitigation and adaptation.*
- B. *Protect & enhance green infrastructure network.*



Actions

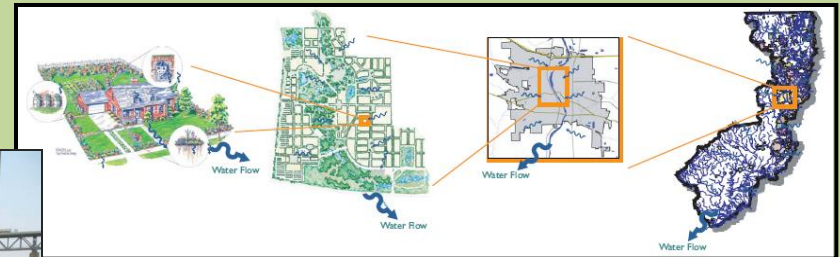
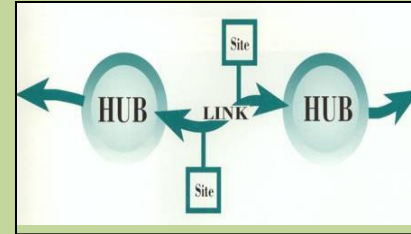
1. *Coordinate at the regional, community, neighborhood & site scales.*
2. *Incorporate Chicago Wilderness Climate Change Task Force data.*
3. *Develop oak tree restoration program.*

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Chapters

- **Background**

- *What is Green Infrastructure?*
- *Hubs, Links, Sites and Buffers*
- *Regional, Community Neighborhood and Site*
- *Cost Effectiveness*



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Chapters

- **Kane County & Green Infrastructure**
 - *Regional Green Infrastructure Vision*
 - *Kane County 2040 Plan*
 - *Kane County Stormwater Management Plan and Stormwater Ordinance*
 - *Watershed Planning*
 - *Open Space & Green Infrastructure in Kane County*



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Chapters

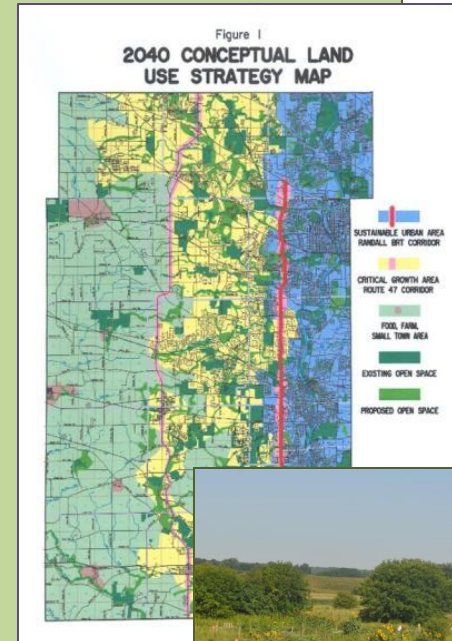
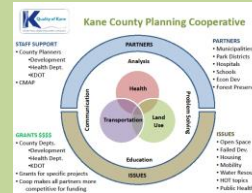
- **Developing the Kane County 2040 Green Infrastructure Plan**
 - *Introduction*
 - *Green Infrastructure Mapping Process*
 - *Kane County Planning Cooperative*



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Chapters

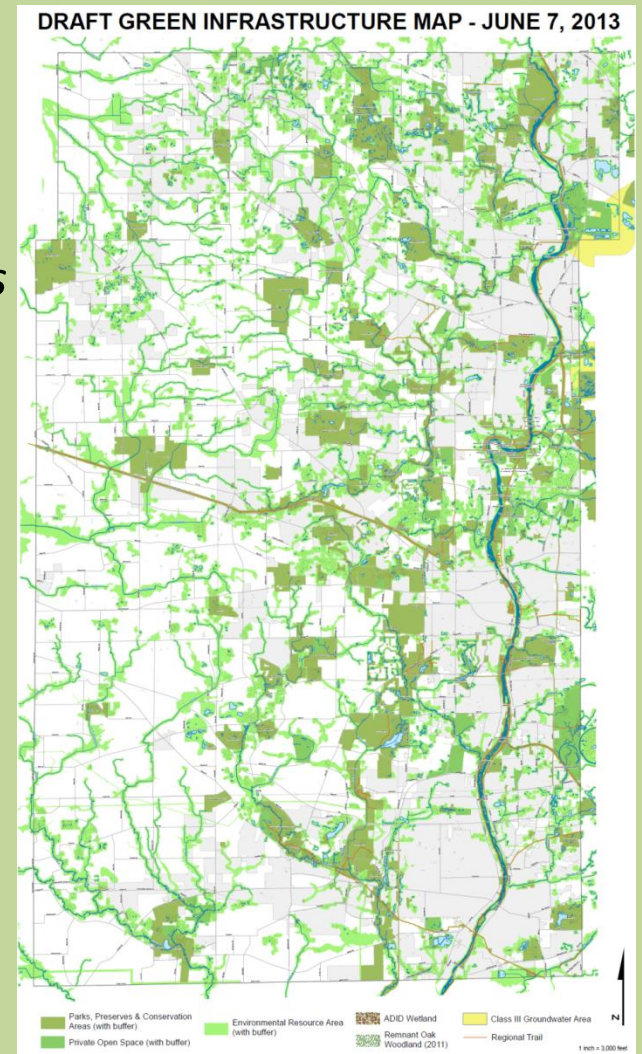
- **Implementation**
 - Acquisition by public agencies
 - Conservation Easements
 - Land Use Planning & Zoning
 - Conservation Development
 - Links or Greenway Connections
 - Trails, Bikeways & Water Trails
 - Landscape Retrofits & Restoration
 - Farmland Protection
 - Neighborhood and Site BMPs
 - Kane County Planning Cooperative
 - Planning Workshops



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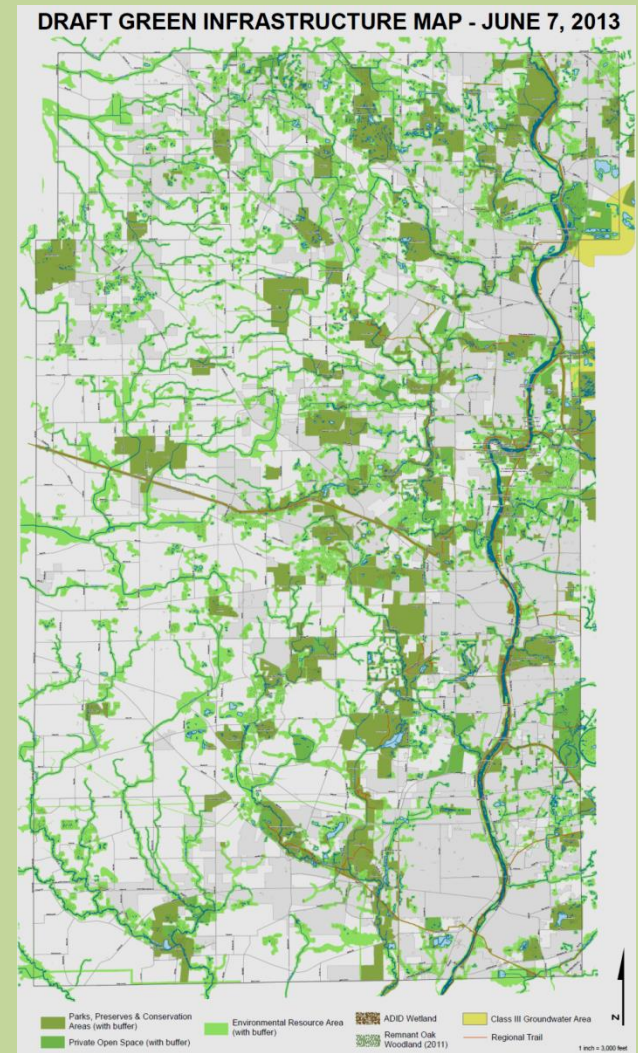
- **Appendices**

- *Strategic Conservation Makes Economic Sense- Local Green Infrastructure Case Studies*
- *Meeting Notes*
- *Green Infrastructure Map Core Layers*
- *Green Infrastructure Map Mapping Rules*
- *Additional Water Resources Elements*
- *Ordinance Checklist for Municipalities*
- *References/Additional Resources*
- *Kane County Green Infrastructure Map*



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- **Next Steps**
 - **October 10th – Energy & Environment Committee Resolution?**
 - November 13th – Regional Planning Commission
 - November 14th – Energy & Environment Committee Resolution
 - November 26th – KC Board Committee of the Whole?
 - December 10th – KC Board Adoption?



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Public Comment Revisions to Draft



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Revisions to Draft

Regional Green Infrastructure Vision Page 19

Northwest Water Planning Alliance (NWWPA)

The Northwest Water Planning Alliance was created in 2010 after Kane County initiated discussions regarding the lack of authority for local governments to regulate water withdrawals and water supply planning. The NWWPA utilizes intergovernmental agreements among the counties of Kane, Kendall, DeKalb, McHenry and Lake and five Councils of Government representing approximately 80 communities that do/will not rely on Lake Michigan Water. Water conservation and efficiency was one of the two goals addressed.

Northeastern Illinois Regional Water Supply/Demand Plan – Water 2050

Completed in 2010 and facilitated by CMAP, Water 2050 recognizes that the water supply planning issues in Kane County and other collar counties that rely on inland surface water or groundwater for drinking water are different than in the Lake Michigan service area.

Kane County 2040 Plan Pages 22-23

Kane County acknowledges the value of an integrated water resource planning process for guiding and developing water resource plans. Integrated water resource planning identifies “the most efficient means of achieving the goals while considering the costs of project impacts on other community objectives and environmental management goals.” The 2040 Plan describes how integrated water resource planning can be used to address water supply, wastewater and stormwater issues.

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Revisions to Draft

Green infrastructure Map Categories

Pages 34-35

- **Private Open Space** (with buffer) Land that is privately owned but either precluded from development or is unlikely to be developed based on its current use. Private open space includes subdivision common areas, golf courses, and camps as well as privately owned properties that are permanently preserved such as IDNR Nature Preserves, IDNR Land and Water Reserves, and conservation easements. These areas typically are not open to the general public. Included in this category is a 200-foot buffer around the outside edge of the sites designated as Illinois Nature Preserves and Land and Water Reserves.
- **Environmental Resource Area** (with buffer) Lakes, ponds, rivers, creeks, wetlands, Illinois Natural Area Inventory (INAI) sites, oak woodlands, FEMA 100-year flood hazard areas, and Hydrologic Atlas floods of record. These areas were chosen to be included here because they provide, or have the potential to provide, valuable natural functions such as storm water management, aquifer recharge, water filtration and flora and fauna habitat. Included in this category is a 200-foot buffer around the outside edge of the resource areas with the exception of flood hazard areas and floods of record.

Actions for Goal to Preserve KC Natural Resources

Page 37

- 4. Promote Integrated Resource Planning among the stakeholders in Kane County and the region as a way to rationalize the management of our natural resources in a cost-effective and sustainable way.

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Revisions to Draft

Implementation Farmland Protection Page 42

Add language about local foods.

Neighborhood and Site Best Management Practices Page 42

- Reuse of gray water to irrigate plants and to reduce dependence on drinking water supplies.

Appendix 3 Green Infrastructure Map Core Layers Page 66

- **IDNR Biological Stream Rating**- Illinois Dept. of Natural Resources multi-tiered classification of streams based primarily on fish communities for the purpose of conserving biodiversity across the state.
- **Aquifer Sensitivity Areas** – potential vulnerability of aquifers in an area to contamination from sources at or near the surface.
- **Hydric Soils** - a soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part.

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Questions?

