

Natural Resource Information Report Application

McHenry-Lake County Soil and Water Conservation District

1648 S. Eastwood Dr., Woodstock, IL 60098 Voice: (815) 338-0444 x 3 www.mchenryswcd.org

For office use only

File Number: _____ - _____ - _____ Date Received: _____/_____/20____

Fee: _____ (Please make check payable to McHenry-Lake County SWCD.)

The McHenry-Lake County SWCD has thirty (30) days to complete this report after receipt of **ALL** the following items and after presentation to SWCD Board of Directors at their regularly scheduled meeting: Board meetings are scheduled for the first Tuesday of each month at the SWCD office.

Application Check List: (Include your Tentative Plat, Intensive Soil Survey, Tile Investigation, & Certified Wetland Determination if available)

Plat of Survey:

Petition:

Fee:

Tentative plat:

Intensive Soil Survey:

Tile Investigation:

Certified Wetland Determination/Delineation:

Processing of the NRI report will not begin until **all** of the required items have been received by the MLCSWCD (office unless otherwise indicated by SWCD Staff)

Fee: Full report: \$400.00 for 1-3 acres and \$25.00 for each additional acre or part thereof.

Letter: \$100.00 SWCD will determine when letter or full report format will be necessary.

Petitioner's Name: _____ Phone: (____) _____ - _____

Address: _____

Contact Person: _____ Phone: (____) _____ - _____

Address: _____

Parcel Index Number(s): (1) _____ - _____ - _____ (2) _____ - _____ - _____

(3) _____ - _____ - _____

Aggregate parcel size _____ (acres)

Current Zoning: _____ Requested Zoning: _____

Description of Zoning Request: _____

Proposed Improvements:

Dwellings on Slabs

Common Open Space

Drainage Ditches/Swales

Dwellings with Basements

Sewers

Wet Retention Basin

Commercial Buildings

Individual Wells

Storm Sewers

Park/Playground Areas

Community Water

Dry Detention Basin

Conservation Easements

Septic Systems

Other _____

Unit of Government Responsible: County of McHenry

County of Lake

City/Town of _____

Is the parcel within 1 mile of a Village or City Boundary? Yes No

If yes, which (City/Town/Village)? _____

It is understood that filing this application allows a district representative the right to conduct an onsite investigation of the parcel(s) described above. Furthermore, this report becomes subject to the Freedom of Information Act after presentation to the District Board of directors at their regularly scheduled meeting.

Contact person or Petitioner's signature: _____ Date: _____ / _____ /20____

SITE ASSESSMENT (SA) WORKSHEET

FACTORS CONSIDERED		MAX POINTS	POINTS GIVEN	COMMENTS
1.	Percent of the same zoning classification within one and one-half (1.5) miles of the property in question.	20	20 10 0	25% or less 74% - 26% 75% or more
2.	Percent of the same zoning classification adjacent to the property in question.	20	20 10 0	25% or less 74% - 26% 75% or more
3.	Existence of natural, historic and/or cultural resources on or adjacent to the property in question.	20	20 0	yes no
4.	Consistency of proposed use with surrounding land uses within a quarter (1/4) mile of the property in question.	20	20 10 0	Different use/ inconsistent Mixed use, but similar in nature to request same use
5.	Consistency of proposed use the McHenry County Comprehensive Plan.	20	20 10 0	Not consistent with plan map or text Consistent with text but not with plan map Consistent with plan map and text
6.	Distance from a municipal boundary.	20	20 0	More than one and one-half (1.5) miles One and one-half (1.5) miles or less
7.	Level of emergency service.	20	20 10 0	Volunteer fire/rescue district Part time fire/rescue district Full time fire/rescue district
8.	Type of wetland(s) on the property in question.	20	20 10 0	ADID high quality wetland or ADID high functional value wetland ADID wetland, ADID farmed wetland, NRCS non-inventoried hydric soil(s), NRCS wetland, NRCS farmed wetland, or NRCS farmed wetland pasture no wetland present

9.	Type of regulatory floodplain on the property in question.	20	20 10 0	FEMA floodplain Not FEMA but flood of record No floodplain present
10.	Percentage of hydric soils on the property in question.	20	20 10 0	More than 30% 30% - 15% Less than 15%

LESA SUMMARY TABLE:

LAND EVALUATION TOTAL:		300 – 201 Maintain existing land use
SITE ASSESSMENT TOTAL:		200 – 151 High impact to existing land use and resources
TOTAL LESA SCORE:		150 – 101 Moderate impact to existing land use and resources
		100 – 0 Low impact to existing land use and resources

BOARD CONCERNS FOR NRI'S

1. wetland

- a. delineation
- b. buffers
- c. degradation
- d. restoration
- e. erosion control
- f. easements
- g. permits
- h. flooding & structural problems

2. floodplain

- a. delineation
- b. permits
- c. flooding potential
- d. buffers
- e. easements
- f. compensatory storage

3. prime farmland

4. hydric soils

- a. flooding and structural problems
- b. basements
- c. sump pump

5. septic suitability

6. natural areas

- a. degradation
- b. loss

7. ag areas

- a. entering wedge
- b. in-compatible use
- c. conflict use

8. stream on property

- a. buffers
- b. restoration
- c. erosion control
- d. easement
- e. water quality

9. HEL ground

- a. Erosion & sediment control
- b. Offsite impacts
- c. Nutrients

10. aquifer sensitivity

- a. excessively permeable soils
- b. groundwater protection

11. drainage tile

- a. tile investigation
- b. flooding or ponding
- c. maintenance

12. 2040 land use plan

- a. entering wedge

13. Watershed Plans

- a. Nippersink
- b. Kish
- c. Water quality
- d. Impacts from ag and urban

14. Maintenance of open space areas

15. LE Score

16. Unfarmability (according to zoning ordinance)

- a. Slopes
- b. Tree cover
- c. buildings

17. trees

- a. survey
- b. protection
- c. easement

18. Stormwater Runoff

- a. Water quality effects of downstream resources

19. Township & Municipal Land use plans

20. Pipelines?

RESOURCE LINKS

Illinois State Geologic Survey <https://clearinghouse.isgs.illinois.edu/data>

Climate



Illinois Climate Network: Soil Data



Illinois Climate Network: Weather Data

Coastal



Airborne transient electromagnetic survey data, southwest Lake Michigan coast, April 2017



Coastal Habitat Maps along Illinois Beach State Park, derived from aerial and drone imagery, 1939-2020



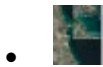
Digitized Shorelines at Illinois Beach State Park



Orthomosaic, Digital Elevation Model (DEM), and Point Cloud at Illinois Beach State Park



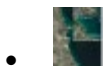
Orthomosaic, Digital Elevation Model (DEM), and Point Cloud at Waukegan, Illinois



Orthomosaic, Digital Elevation Model (DEM), and Point Cloud, Chicago Park District



Singlebeam Bathymetry at Illinois Beach State Park



Singlebeam Bathymetry, Chicago Park District

Elevation



Illinois Height Modernization (ILHMP): LiDAR Data



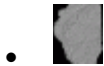
Surface Elevation: 30-Meter Digital Elevation Model (DEM)



Surface Elevation: 30-Meter Shaded Relief Map



Surface Elevation: 301-Foot Digital Elevation Model (DEM)



Surface Elevation: 301-Foot Shaded Relief Map

Geology



Bedrock Geology, 1967



Bedrock Geology, 2005



Bedrock Topography



Bedrock Valleys



Driftless Areas



Elevation of the Base of the Barlow Limestone



Elevation of the Karnak Limestone



Elevation of the New Albany Shale



Geologic and Geophysical maps of the Ozark, Illinois, Indiana, and Kentucky (OIINK) Region



Glacial Boundaries



Glacial Drift Thickness and Character



Illinois Borehole Temperatures



Illinois Drill Stem Tests



Illinois Waterflood Units 1946-2002



Illinois Well Headers



Illinois Well Logs



Illinois Well Tests



ISGS Field Notes



Location Points from the ISGS Wells and Borings Database



- [Moraines \(End Moraines\) of the Wisconsin Episode](#)



- [Oil, Gas, and Gas Storage Fields in Illinois, 2002](#)



- [Oil, Gas, and Gas Storage Fields in Illinois, 2023](#)



- [Physiographic Divisions](#)



- [Quaternary Deposits, 1979](#)



- [Quaternary Deposits, 1996](#)



- [Soil Associations Map \(500K\)](#)



- [Stack-Unit Mapping of Geologic Materials to a Depth of 15 meters](#)



- [Structural Features: Anticlines, Synclines, and Monoclines](#)



- [Structural Features: Faults, Grabens, and Flexures](#)



- [Structural Features: Polygon and Point Features](#)

Hydrology



- [Coarse-grained Materials Within 50 Feet of the Ground Surface in Illinois](#)



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Flood Zones for Unincorporated Areas, One-Hundred and Five-Hundred Year



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Illinois Center Pivot Irrigation



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Illinois Municipal Water Use, 2012



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Illinois Sinkhole Areas



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Illinois Sinkhole Points



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Major Aquifers



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Major Bedrock Aquifers at Depths Greater Than 500 Feet Below Ground Surface



-

Major Bedrock Aquifers Within 300 Feet of Ground Surface



-

Major Bedrock Aquifers Within 500 Feet of Ground Surface



-

Major Sand and Gravel Aquifers



-

Northeast Illinois Shallow Bedrock Potentiometric Surface



-

Potential of Agricultural Chemical Contamination of Aquifers



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Reservoir Observation Network



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Sediment Monitoring Network



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Shallow Groundwater Wells Network



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Streams and Shorelines



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Wetlands, National Wetlands Inventory, 1987

Imagery



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1927 Historical Aerial Photographs, Mississippi River



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1937-1947 Illinois Historical Aerial Photography



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1998 - 2001 Illinois Digital Orthophoto Quadrangle (DOQ) Data



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2000 Des Plaines River Watershed Orthophotography



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2004 Illinois NAIP Digital Orthophoto Quadrangle Data



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2005 Illinois Chicago Urban Area Orthophotography



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2005 Illinois Digital Orthophoto Quarter Quadrangle Data



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2005 Illinois NAIP Digital Orthophoto Quadrangle Data



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2006 Illinois NAIP Digital Orthophoto Quadrangle Data



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2007 Illinois NAIP Digital Orthophoto Quadrangle Data



-

2010 Illinois NAIP Digital Orthophoto Quadrangle Data



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2011 Illinois Department of Transportation (IDOT) Orthophotography



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2011 Illinois NAIP Digital Orthophoto Quadrangle Data



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2012 Illinois NAIP Digital Orthophoto Quadrangle Data



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2014 Illinois NAIP Digital Orthophoto Quadrangle Data



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2015 Illinois NAIP Digital Orthophoto Quadrangle Data



-

2017 Illinois NAIP Digital Orthophoto Quadrangle Data



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2019 Illinois NAIP Digital Orthophoto Quadrangle Data



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ISGS Historic Photographs



• [Municipal Boundaries: Incorporated Places 2000](#)



• [Political Districts and Boundaries, 2006 and 2007](#)



• [Political Townships](#)



• [U.S. Geographic Names Information System \(GNIS\) for Illinois](#)

Landcover



• [Forest Cover of Illinois in 1820](#)



• [Illinois Gap Analysis Program: Land Cover Classification, 1999-2000](#)



• [Illinois Landcover in the Early 1800s](#)



• [Land Cover of Illinois 1999-2000 Data](#)



• [USDA-NASS Cropland Data Layer Illinois 1999-2006](#)



• [USDA-NASS Cropland Data Layer Illinois 2007](#)

Reference



• [BLM Illinois Public Land Survey System](#)



•

Illinois Coordinate System of 1983: 33 Zone



Illinois County Boundaries, Polygons and Lines



Illinois PLSS Townships



Illinois Public Land Survey System (PLSS) Boundaries



Illinois State Boundary



Indian Treaty Boundary Lines



State Plane Zones



Universal Transverse Mercator (UTM) Zones



USGS Digital Raster Graphic (DRG) Files



USGS Digital Raster Graphic (DRG) Mosaic



USGS Quadrangle Boundaries and Corner Points in Illinois

FEMA 100-Year Floodplain-National Flood Hazard Map Viewer

<https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd>

USGS Hydrologic Atlas (Historic Flooding)

<https://pubs.usgs.gov/browse/Report/USGS%20Numbered%20Series/Hydrologic%20Atlas/>

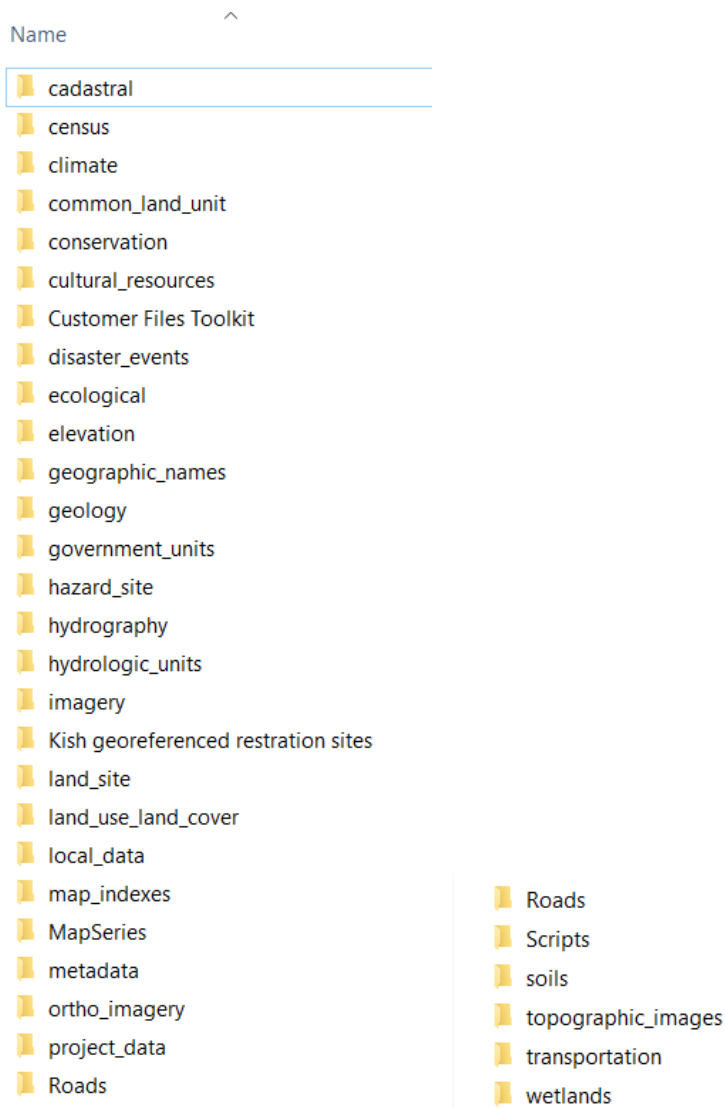
US Fish & Wildlife – National Wetland Inventory – Wetland Mapper

<https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>

Web Soil Survey

<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

F Drive/Geodata



Illiois DNR Data (T&E Species, Natural Area Inventory Sites, Nature Preserves, Land & Water Reserves):

<https://naturalheritage.illinois.gov/dataresearch/access-our-data.html>