



Kane County Stormwater Infrastructure Mapping & Tools



Kane County Department of Environmental & Water Resources, working with Kane County GIS Technologies Department has published a set of stormwater mapping layers and tools to help planners, engineers, emergency responders and the general public better understand how stormwater moves through Kane County. These layers include infrastructure features such as storm sewers, culverts, drain tiles, detention basins and represent the best available data. Additionally, storm flow paths and areas of potential flood inundation have been mapped and are included as informational stormwater layers. Accessing these layers on the County's public GIS webpage is outlined in the accompanying slides.

Accessing the Map

countyofkane.org





KANE COUNTY, ILLINOIS
ESTABLISHED JANUARY 16, 1836

ENHANCED BY Google

Select Language | Font Size: A A A

Government A-Z Services Business Communities Calendar **Maps** Employment



E-Payments Property Tax Board Members Why Kane Open Finance Help For Home Owners

Kane County Connects - Local Events



[Poem About Why Kane County is the Place to Be](#)



[Forest Preserve Wants to Bring Bison to North West Kane County](#)



[Kane County Recognizes Employee Who Received the Purple Heart](#)



[Kane County Part of Student Solar Workshop/Tour](#)

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Media Releases

Accessing the Map

countyofkane.org/Pages/Maps.aspx



KANE COUNTY, ILLINOIS

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Font Size: [A](#) [A](#) [A](#)

[Government](#) [A-Z Services](#) [Business](#) [Communities](#) [Calendar](#) [Maps](#) [Employment](#)

Kane County Maps

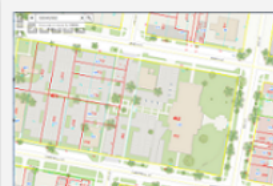
The following are links to a variety of informational county maps.

Use the maps provided by GIS Technologies below to search for locations by either address, parcel, district, polling place, forest preserve, municipality, or county facility.

For questions or further information: 630-208-8655.

Map Links

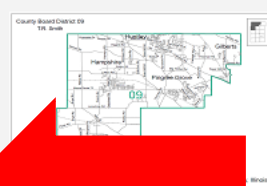
- [Kane County Facilities and Directions - Google Maps](#)
- [Kane County Highway Map](#)
- [Kane/Northern Kendall Bicycle Map](#)
- [Kane County Government Center Campus](#)
- [Kane County Illinois Census 2020 Demographics](#)
- [Kane County - UIRVDA](#)
- [Individual Maps for all 24 Board Districts](#)
- [2021 Redistricting Maps Page](#)
- [2021 Kane County Board District Map Adopted November 30, 2021 Packet](#)
- [GIS County Board Districts Interactive Map](#)



a.) KaneGIS3 Viewer



b.) KaneGIS4 Viewer



c.) Kane County District Maps



d.) Transportation Maps

Navigating the Map

gistech.countykane.org/gisims/kanemap/kanegis4_agox.html

KaneGIS4 (4 x)

Map Aerials Hybrid Lat/Lng

Find Address, Pin, Sub

Please enter a search term.

About Help Themes Layers

Developed by GIS-Technologies

County Layers Disclaimer

These layers do not represent a survey. No Accuracy is assumed for the data delineated herein, either expressed or implied by Kane County or its employees. These layers are compiled from official records, including plats, surveys, recorded deeds, and contracts, and only contains information required for local government purposes. See the recorded documents for more detailed legal information.

ASA, USGS, EPA, NPS, USDA, USFWS

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Navigating the Map

The screenshot displays the KaneGIS4 web application interface. The main map area shows an aerial view of a residential neighborhood with various overlays. Three red arrows point to specific controls:

- 1. Turn on aerial photo**: Points to the 'Hybrid' map style button in the top-left corner.
- 2. Access map layers here**: Points to the 'Layers' panel on the right side of the map.
- 2. Access stormwater layers here**: Points to the 'Stormwater' layer in the 'Layers' panel.

The 'Layers' panel on the right lists various data layers, including:

- ForestPreserve*
- Creeks
- FoxRiver
- Water
- WaterShed
- FEMALayers
- ADID
- Aquifer Major
- Aquifer Sensity
- Bedrock Lith
- Bedrock Topo
- Soils* Hydric*
- Topography*
- Municipalities
- Districts
- Railroads
- SalesBOR*
- Addresses*
- FarmLand*
- TIF
- CADLine
- CADText*
- CadastralSubs*
- Stormwater
- Zoning
- BaseMap

The bottom-left corner contains a disclaimer:

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The bottom-right corner shows the map's scale and navigation controls, including a 'Powered by Esri' logo.

Navigating the Map

The screenshot displays the KaneGIS4 web application interface. The main map area shows an aerial photograph of a residential neighborhood with streets, houses, and green spaces. Overlaid on the map are several data layers, including a street network and a flood risk layer. A search bar in the top left corner contains the text "Find Address, Pin, or Place". A search button is located to the right of the search bar. A red arrow points from the search bar to a text box labeled "1. Turn on aerial photo". Another red arrow points from the "Layers" button in the top right corner to a text box labeled "2. Access map layers here". A third red arrow points from the "Stormwater" layer in the layer list to a text box labeled "2. Access stormwater layers here". The layer list on the right side of the map includes the following items: Layers, Forest/Preserve*, Creeks, FoxRiver, Water, WaterShed, FEMA Layers, ADID, Aquifer Major, Aquifer Sensity, Bedrock Lith, Bedrock Topo, Soils*, Hydric*, Topography*, Municipalities, Districts, Railroads, SalesBOR*, Addresses*, FamLand*, Streams*, Storm Sewers*, Drain Tiles*, Flow Path*, Detention Basins*, Potential Flood Inundation*, Stormwater, Zoning, and BaseMap. The "Stormwater" layer is currently selected and highlighted in yellow. The "Layers" button is also highlighted in yellow. The "Stormwater" layer is currently selected and highlighted in yellow. The "Layers" button is also highlighted in yellow.

1. Turn on aerial photo

2. Access map layers here

2. Access stormwater layers here

Stormwater Mapping Disclaimer

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About Help Themes

Layers

Forest/Preserve*

Creeks

FoxRiver

Water

WaterShed

FEMA Layers

ADID

Aquifer Major

Aquifer Sensity

Bedrock Lith

Bedrock Topo

Soils*

Hydric*

Topography*

Municipalities

Districts

Railroads

SalesBOR*

Addresses*

FamLand*

Streams*

Storm Sewers*

Drain Tiles*

Flow Path*

Detention Basins*

Potential Flood Inundation*

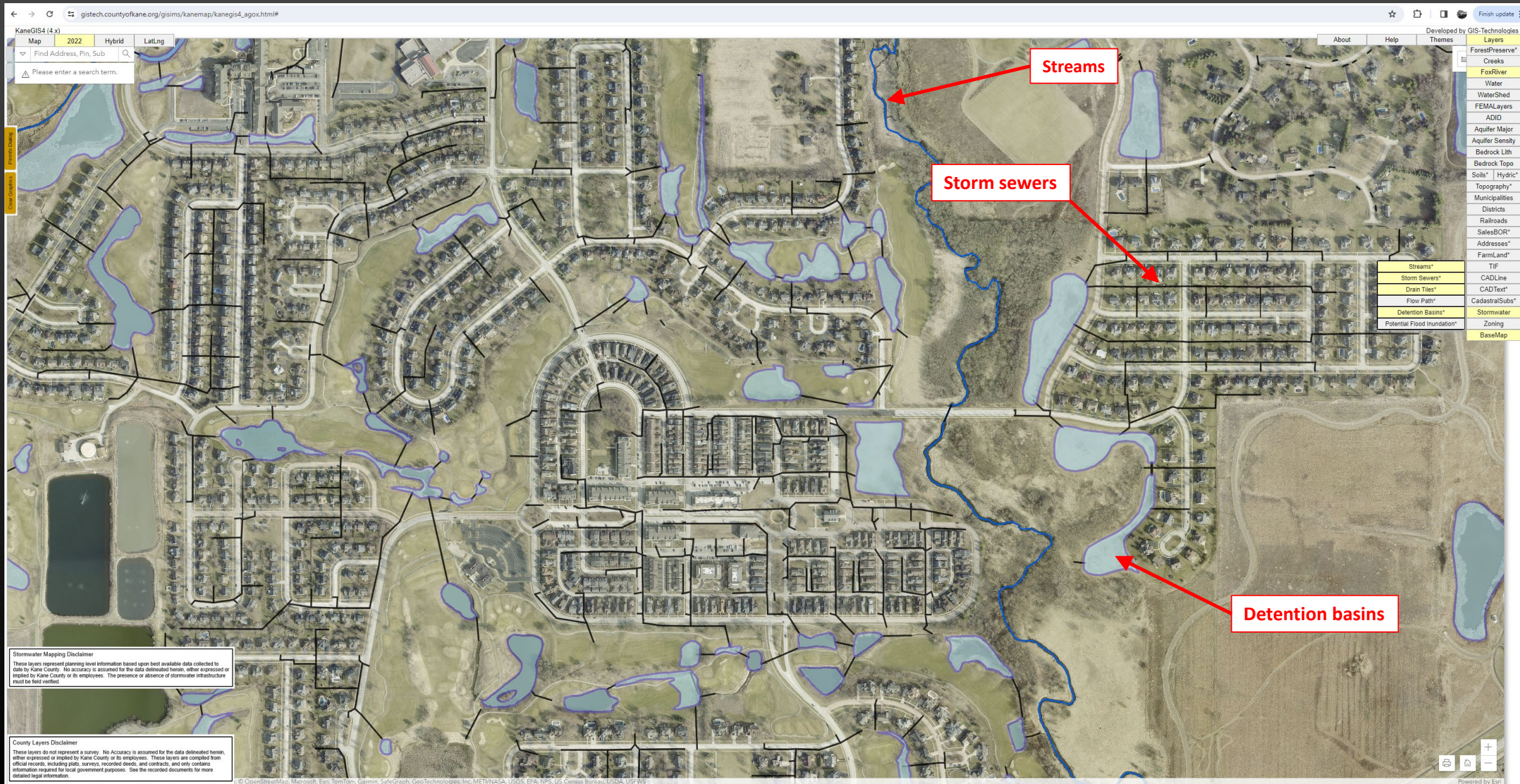
Stormwater

Zoning

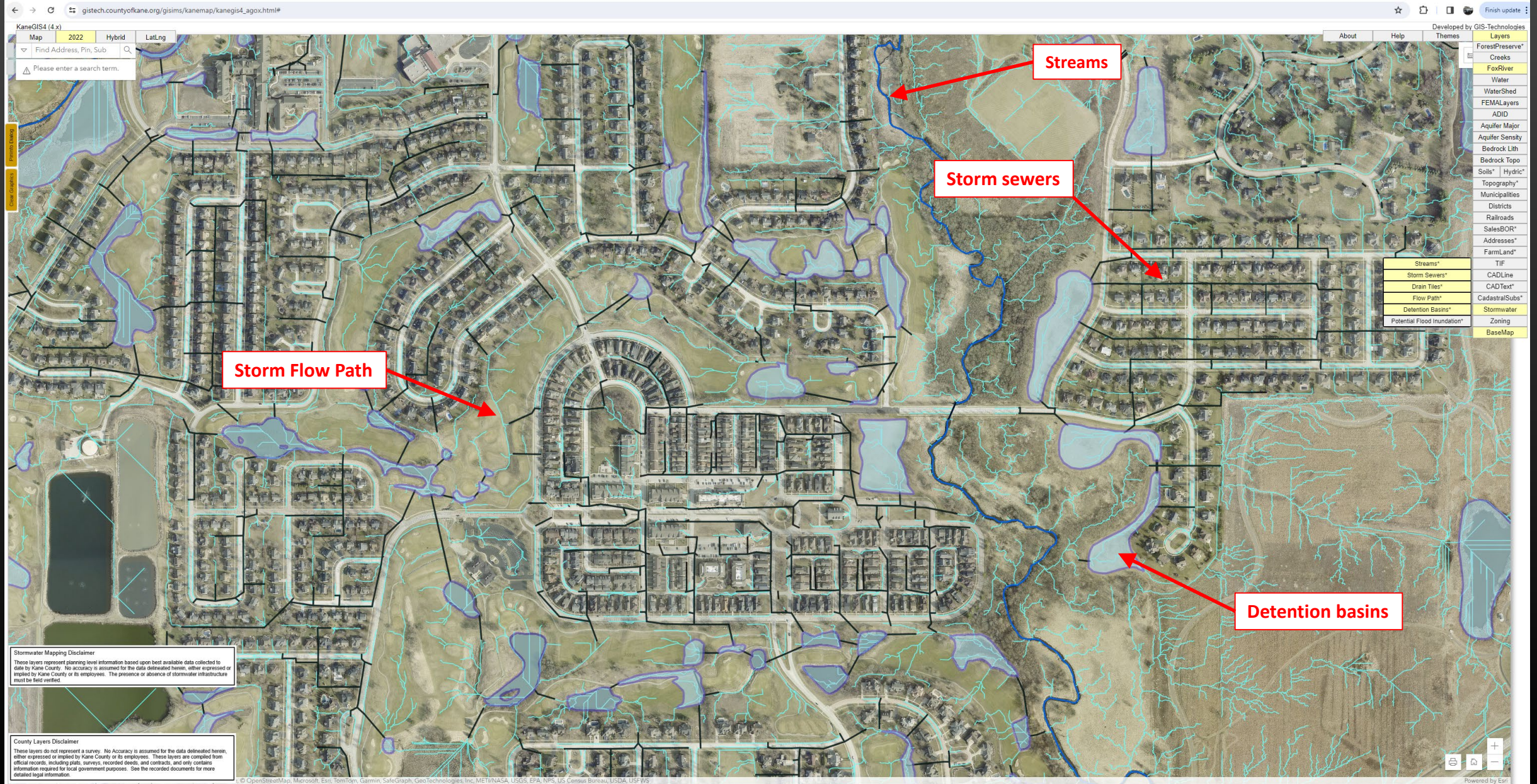
BaseMap

Powered by Esri

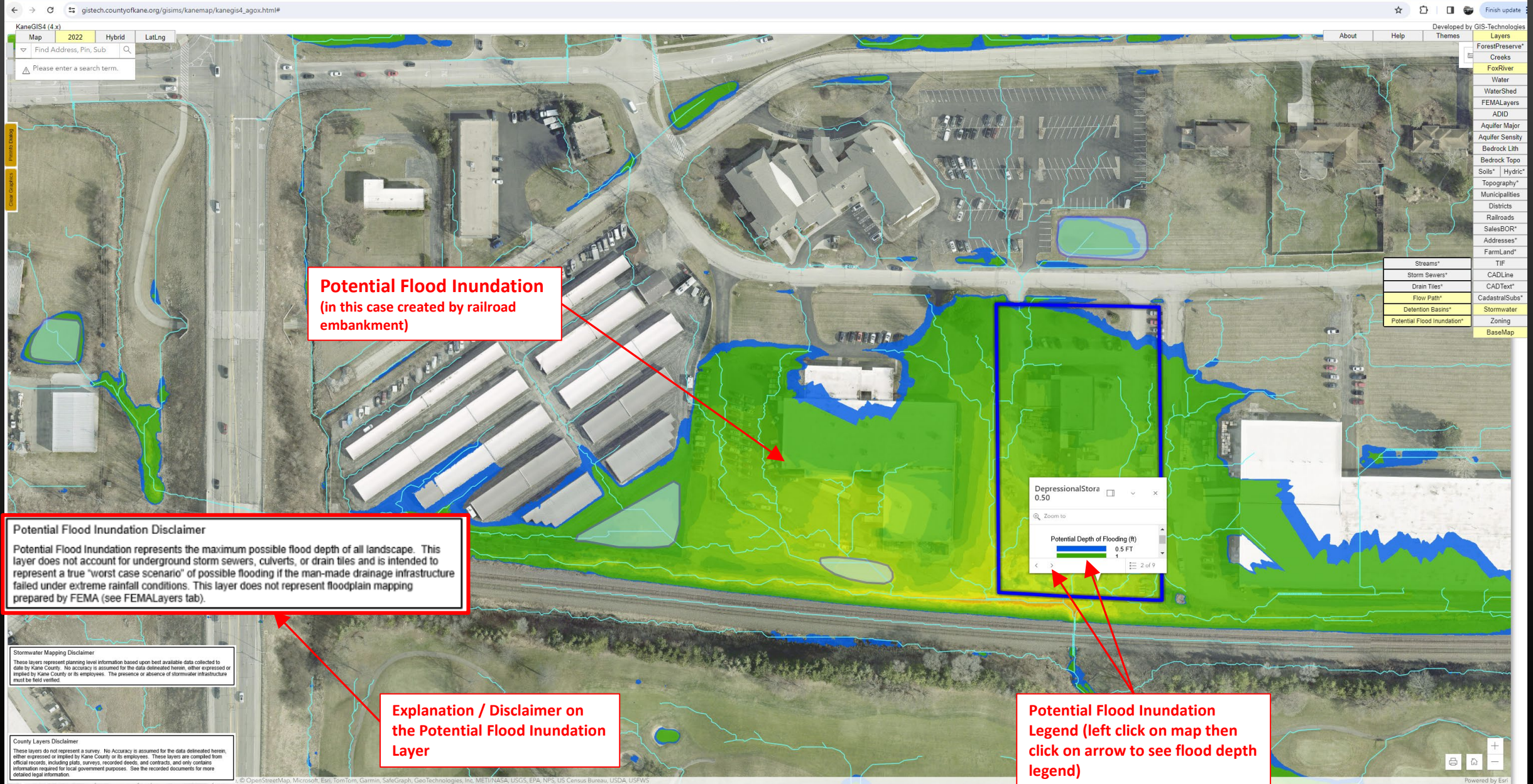
Navigating the Map



Navigating the Map



Navigating the Map



Kane County Stormwater Infrastructure Mapping & Tools

Part 2: Stormwater Tracing Tool

Using the stormwater mapping data compiled by KCDEWR, Kane County GIS Technologies Department has created a Stormwater Tracing Tool which allows a user to trace the flow of stormwater from any point in the County to the nearest river (Fox River/Kishwaukee River). This tracing tool takes into account all channels, culverts, and main storm sewers across the entire county. Accessing the tool on the public GIS webpage is outlined in the accompanying slides.

Stormwater Tracing Tool

gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html

KaneGIS4 (4.x)

Map

Aerials

Hybrid

LatLng

Find Address, Pin, Sub

Please enter a search term.

PrintInfo Dialog

Clear Graphics

Developed by GIS-Technologies

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Cadastral

Stormwater

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Creeks

FoxRiver

Water

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CADLine

CADText*

CadastralSubs*

Stormwater

Zoning

BaseMap

County Layers Disclaimer

Esri, NASA, NGA, USGS, FEMA | County of Kane, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Stormwater Tracing Tool

gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html

KaneGIS4 (4.x)

Map Aerials Hybrid LatLng

Find Address, Pin, Sub

Please enter a search term.

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Cadastral ForestPreserve*

Stormwater Creeks

Zoning FoxRiver

Water

WaterShed

FEMALayers

ADID

Aquifer Major

Aquifer Sensity

Bedrock Lith

Bedrock Topo

Soils* Hydric*

Topography*

Municipalities

Districts

Railroads

SalesBOR*

Addresses*

FarmLand*

TIF

CADLine

CADText*

CadastralSubs*

Stormwater

Zoning

BaseMap

Stormwater Trace

Click a location on the map to trace stormwater flow to the river

Export KML

Selecting "Stormwater" as the Theme will automatically activate the Stormwater Trace Tool. Use the mouse thumb wheel to zoom in (hold left mouse button down to pan), then simply click on the location to activate the trace tool.

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Stormwater Tracing Tool

← → ↺ gitech.countyofkane.org/gisims/kanemap/kanegis4_agox.html

KaneGIS4 (4.x)

Map Aerials Hybrid LatLng

Find Address, Pin, Sub

Please enter a search term.

About Help

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Zoning FoxRiver

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Addresses*

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CADLine

CADText*

CadastralSubs*

Stormwater

Zoning

BaseMap

Developed by GIS-Technologies

Stormwater Trace

JobId: je094fb0e4cc04483869faa7a87abb53f

Point: 983356.795120 / 1907337.870054

JobStatus: Started

- Submitted Request
- Executing
- Performing downstream trace
- Copied trace results

JobStatus: job-succeeded

JobStatus: Completed

Export KML

Stormwater flow trace

The stormwater trace can be exported as a KML file for use in GIS software or Google Earth

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Kane County Stormwater Infrastructure Mapping & Tools

Part 3: Watershed Delineation Tool

Using the stormwater mapping data compiled by KCDEWR, Kane County GIS Technologies Department has created a Watershed Tracing Tool which allows a user to map the land area draining to any point in the County. This tracing tool takes into account all channels, culverts, and known storm sewers across the entire county. Accessing the tool on the public GIS webpage is outlined in the accompanying slides.

Watershed Delineation Tool

← → ↺ ↻ gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html#

KaneGIS4 (4x)

Map

Aerials

Hybrid

Lat/Lng

Find Address, Pin, Sub

Please enter a search term.

Print Overlay

Clear Graphics

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Themes

Cadastral

Stormwater

Watershed

Zoning

Layers

Forest/Preserve*

Creeks

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Select "Watershed" as the Theme

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ies, Illinois, County of Kane, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

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Watershed Delineation Tool

gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html#

KaneGIS4 (4.x)
Map Aerials Hybrid LatLng

Find Address, Pin, Sub

Please enter a search term.

Watershed Basin Trace
Click a location on the map to trace Watershed Basin

Export SHP Export KML

Selecting "Watershed" as the Theme will automatically activate the Watershed Basin Trace Tool. Use the mouse thumb wheel to zoom in (hold left mouse button down to pan), then simply click on the location to activate the trace tool.

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Finish update

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Themes Layers

Cadastral ForestPreserve*

Stormwater Creeks

Watershed FoxRiver

Zoning Water

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BaseMap

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Watershed Delineation Tool

gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html#

KaneGIS4 (4.x)

Map Aerials Hybrid LatLng

Find Address, Pin, Sub

Please enter a search term.

Watershed Basin Trace
JobID: j08c301e4c1e45e2b183d735f914eda9
Port: 963053 082700 / 1905244 120301
JobStatus: Started
- Submitted Request
- Executing
- Performing upstream trace
- Selecting basin
Export SHP Export KML

The watershed basin tool runs for 10 sec up to 5 minutes depending on the size of the watershed being delineated

ObjectID
5427194
Zoom to
arcid: 5427194
grid_code: 1
from_node: 4028144
1 of 2

Selected point

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Finish update

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Themes Layers

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Watershed Delineation Tool

← → ↻ ↺ gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html#

KaneGIS4 (4 x)

Map 2022 Hybrid LatLing

Find Address, Pin, Sub

Please enter a search term.

Watershed area tributary to point selected in acres

Watershed Basin Trace
JobId: j516190a82ae4681e55620a40c0b0d05
Point: 993043 919276 / 11008238 838723
JobStatus: Started
- Submitted Request
- Executing
- Performing upstream trace
- Selecting basin
JobStatus: Job-succeeded
JobStatus: Completed
Watershed: 1968.20 acres

Export SHP Export KML

The watershed boundary polygon can be exported as a KML file for use in GIS software or Google Earth

Watershed boundary of area tributary to point selected

About Help

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Search

Search

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Places

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Watershed Delineation Tool

Layers

- Primary Database
- Announcements
- Borders and Labels
- Places
- Photos
- Roads
- 3D Buildings
- Weather
- Gallery
- More
- Terrain



The watershed boundary
exported into Google
Earth