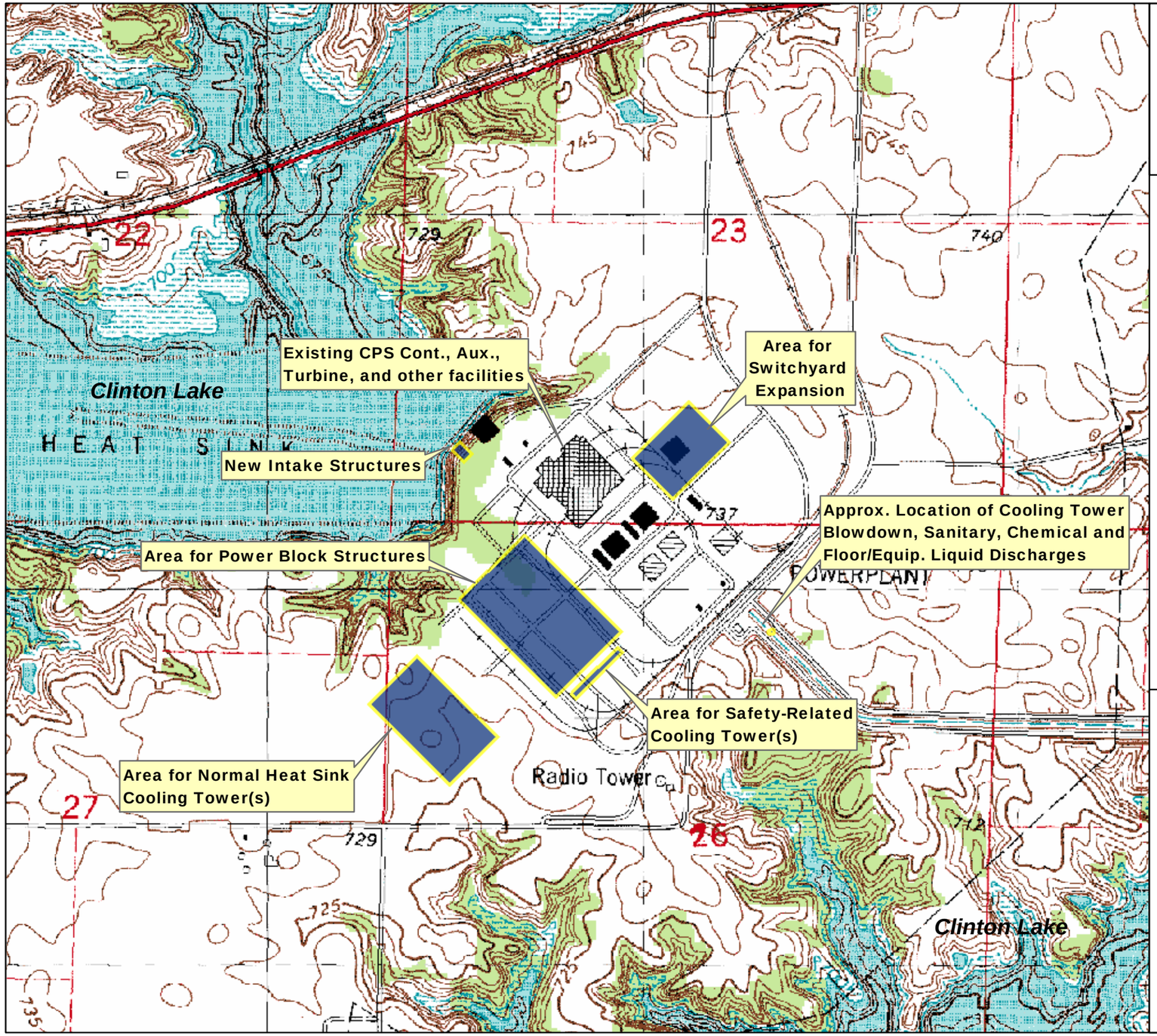
Environmental Report for the EGC Early Site Permit

Figure 2.1-4
Proposed Areas for EGC ESP Structures



Legend

Proposed Areas for EGC ESP Facility Structures

Data Sources:
USGS, 1979

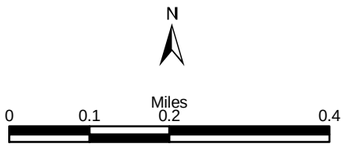


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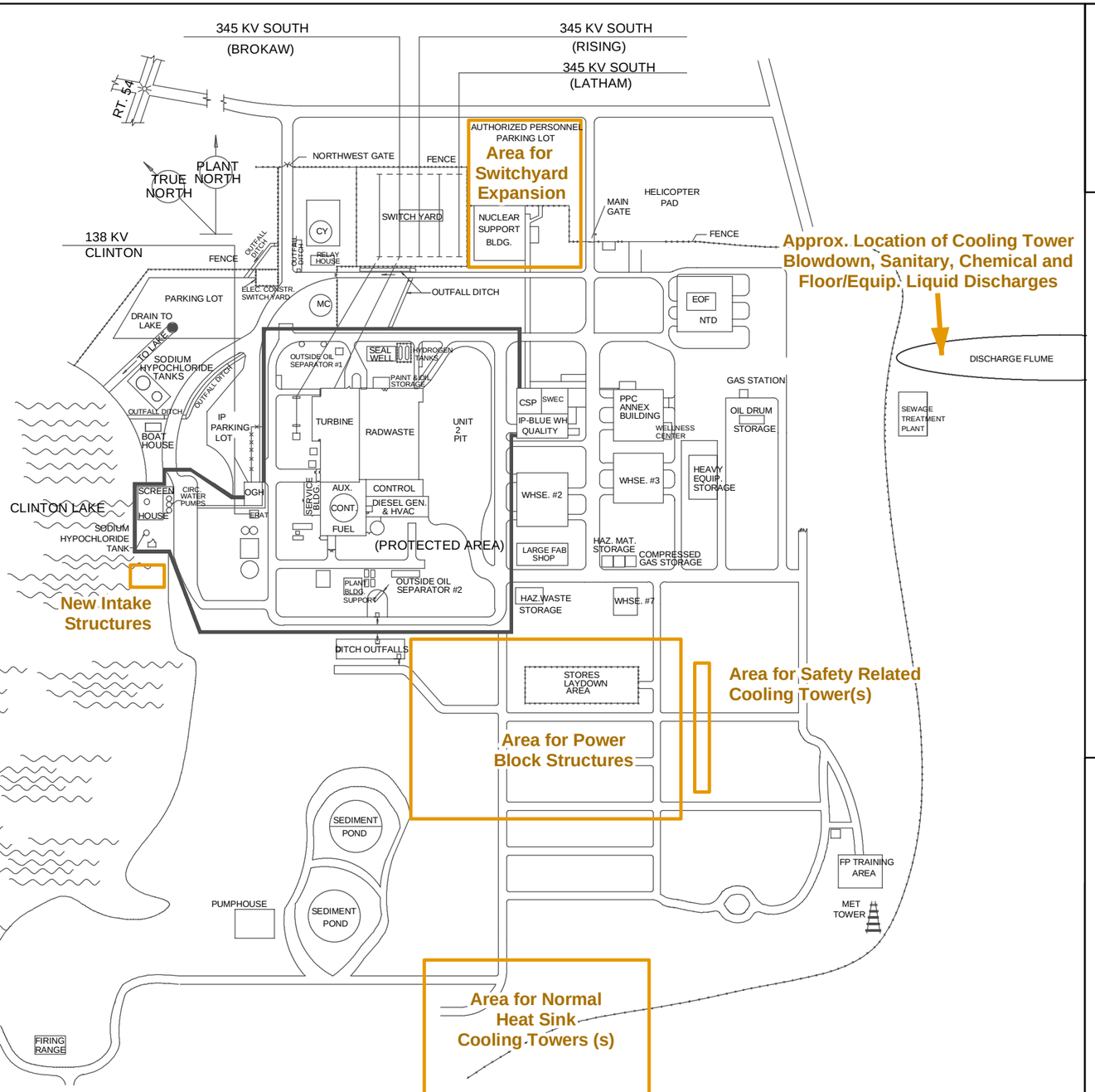
Figure 2.1-5
Location of ESP Structures Relative to Existing CPS Facilities



Legend

Proposed Areas for EGC ESP Facility Structures

Not to Scale

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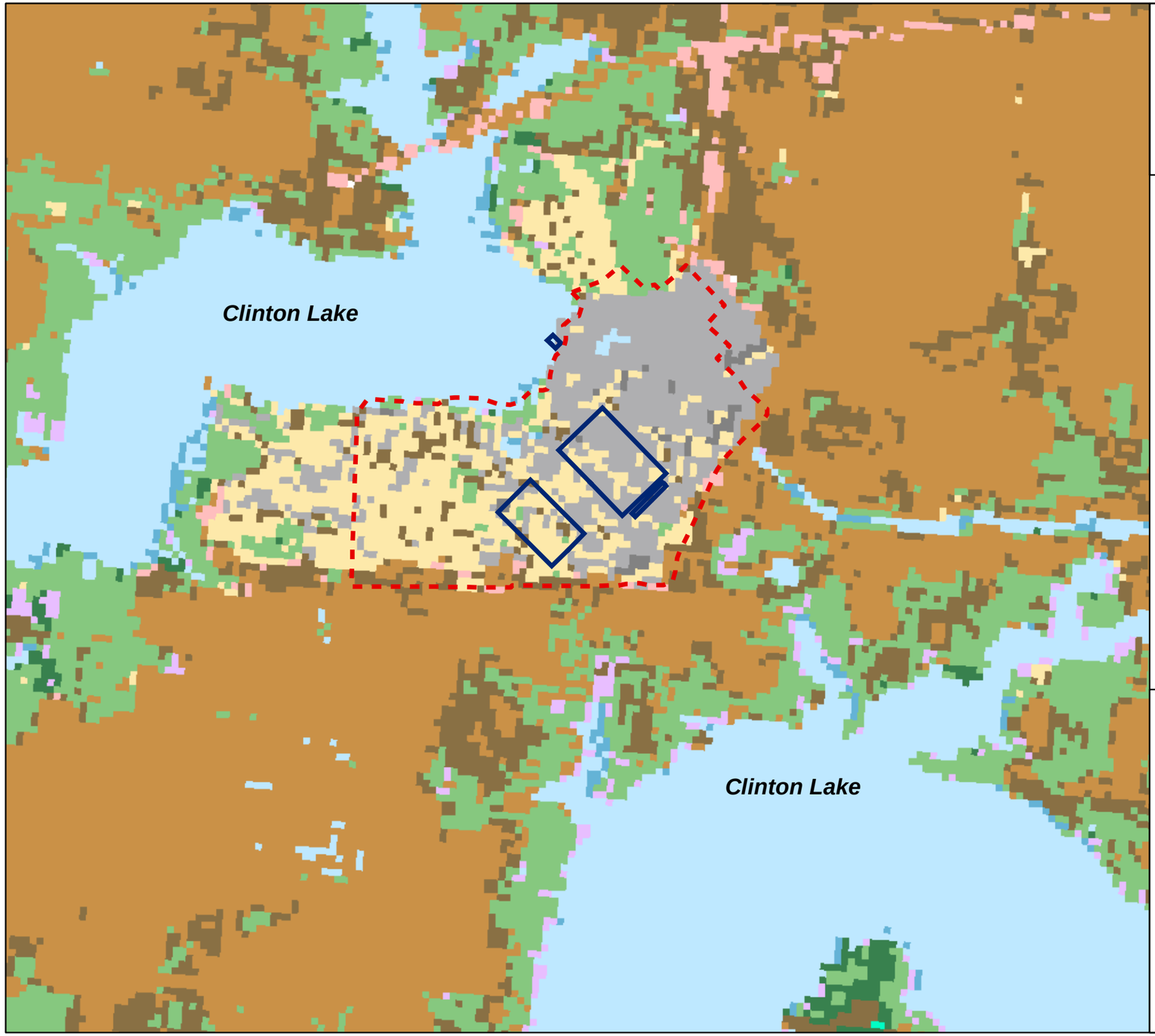
Figure 2.2-1
Land Use/Land Cover at Site



Legend

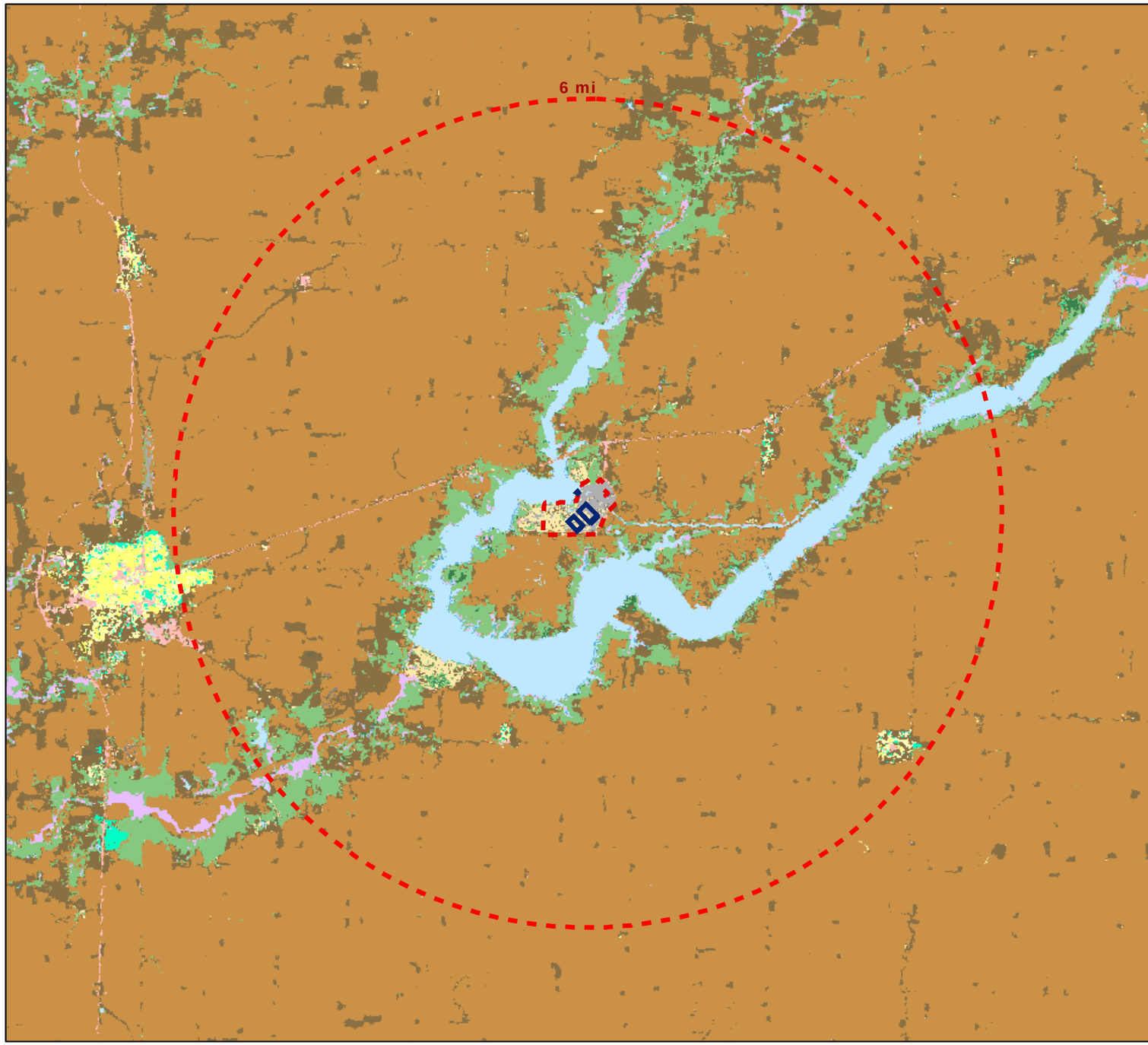
- Site Boundary: Fenceline
- Proposed Areas for EGC ESP Facility Structures
- Open Water
- Commercial/Industrial/Transportation
- Bare Rock/Sand/Clay
- Quarries/Strip Mines/Gravel Pits
- Deciduous Forest
- Evergreen Forest
- Grasslands/Herbaceous
- Pasture/Hay
- Row Crop
- Recreational Grasses
- Woody Wetlands
- Herbaceous Wetlands

Data Sources:
USGS, 1992

N

Miles
0 0.125 0.25 0.5

Figure 2.2-2
Land Use/Land Cover - Site Vicinity



Legend

- Proposed Areas for EGC ESP Facility Structures
- Site Boundary: Fenceline
- Vicinity: 6-mi radius around site
- Open Water
- Low Intensity Residential
- High Intensity Residential
- Commercial/Industrial/Transportation
- Bare Rock/Sand/Clay
- Quarries/Strip Mines/Gravel Pits
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrubland
- Orchards/Vineyards/Other
- Grasslands/Herbaceous
- Pasture/Hay
- Row Crop
- Small Grains
- Recreational Grasses
- Woody Wetlands
- Herbaceous Wetlands

Data Sources:
USGS, 1992

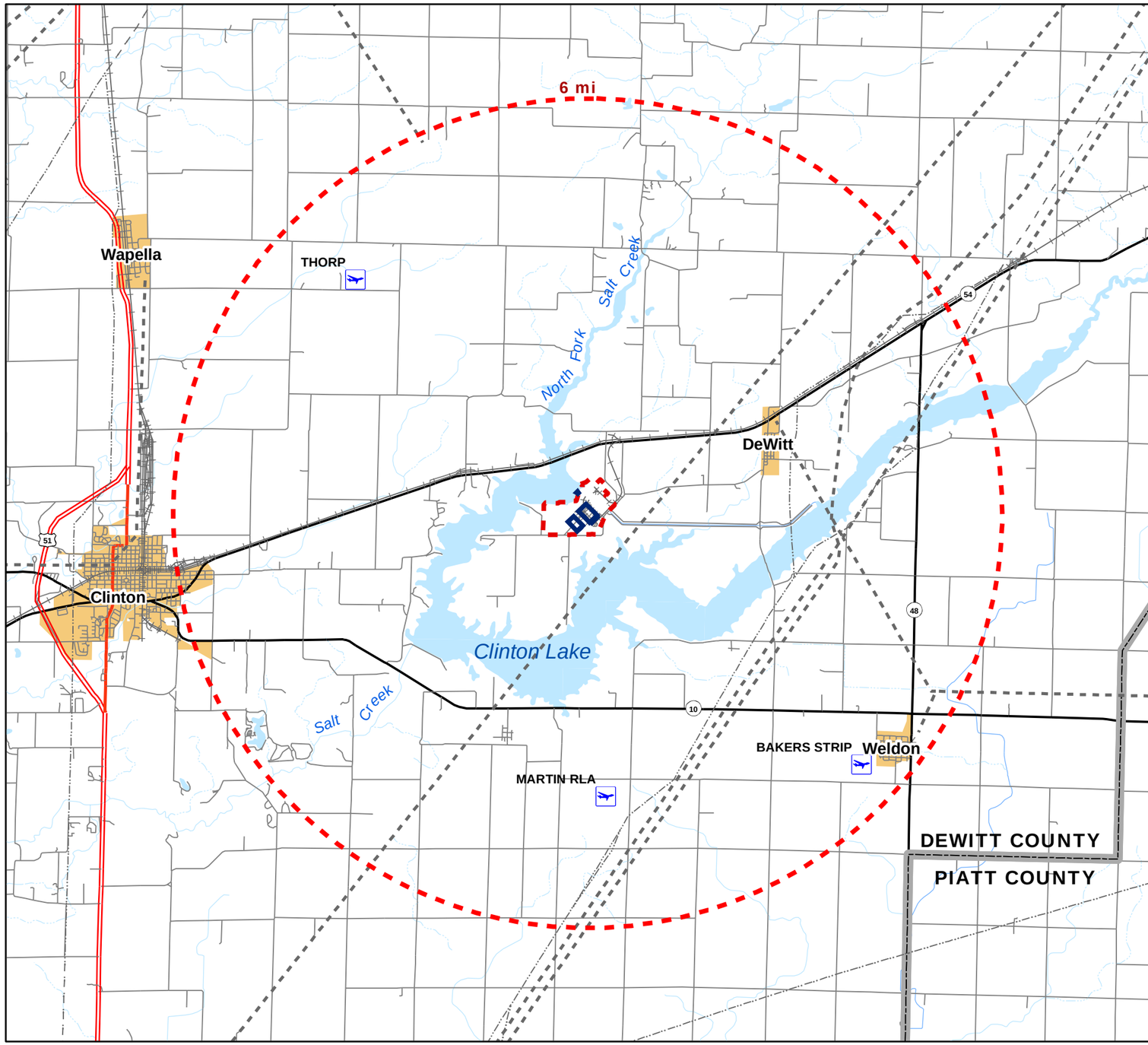
N

Miles

0 1 2 4

Environmental Report for the EGC Early Site Permit

Figure 2.2-3
Vicinity Transportation Network



Legend

- Proposed Areas for EGC ESP Facility Structures
- Site Boundary: Fenceline
- Vicinity: 6-mi radius around site
- Airports
- U.S. Highway, Multilane divided
- U.S. Highway
- State Route
- County or other minor road
- Railroads
- Water: Lakes and Rivers
- Incorporated/Designated Places
- County Boundary
- Pipelines
- Electrical Lines

Data Sources:
Bureau of Transportation Statistics, 2000
IDNR, 1993
IDNR, 1984
U.S. Census Bureau, 2000
U.S. Census Bureau, 2002
U.S. Census Bureau, 2002a

N

Miles

0 1 2 4

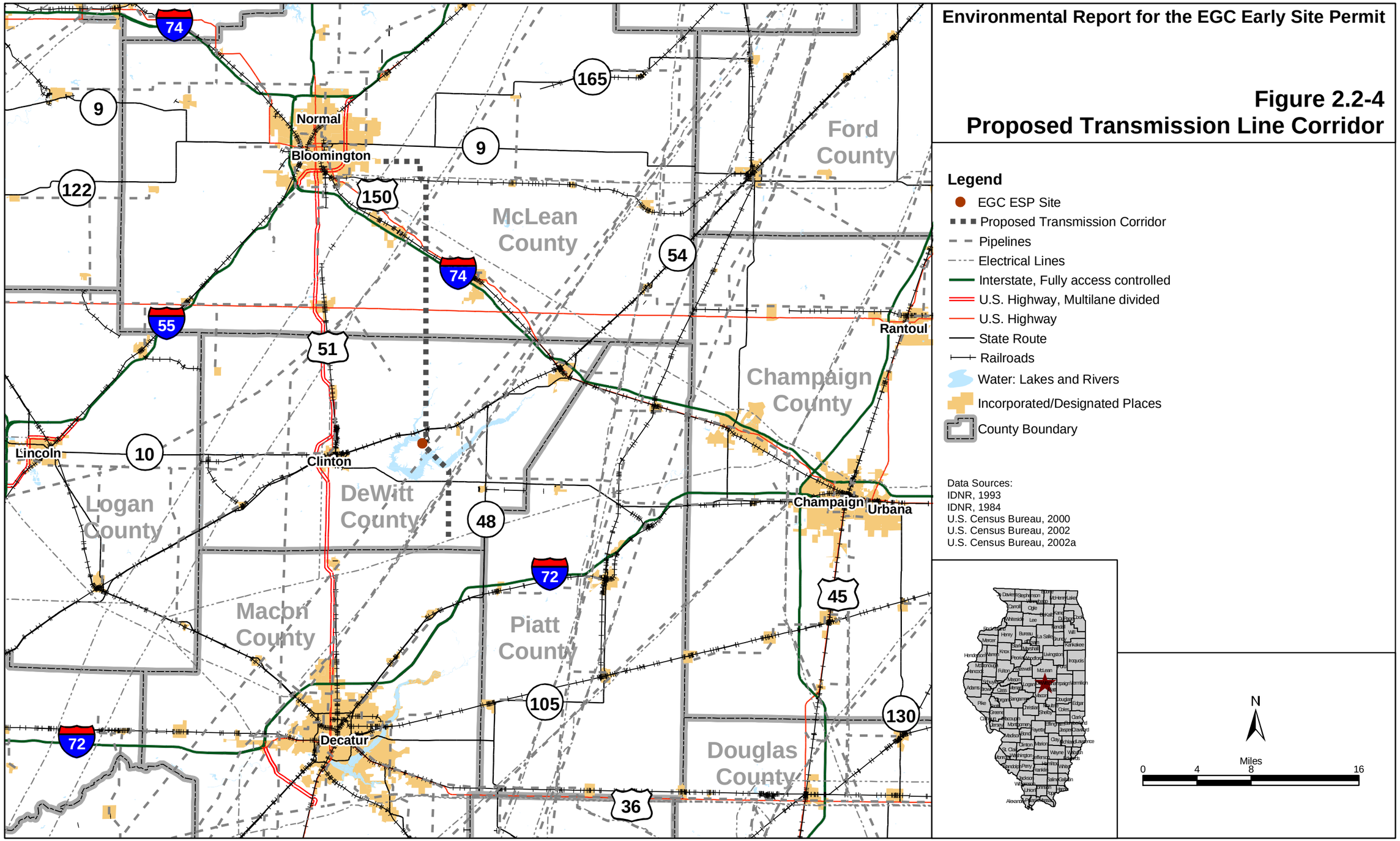
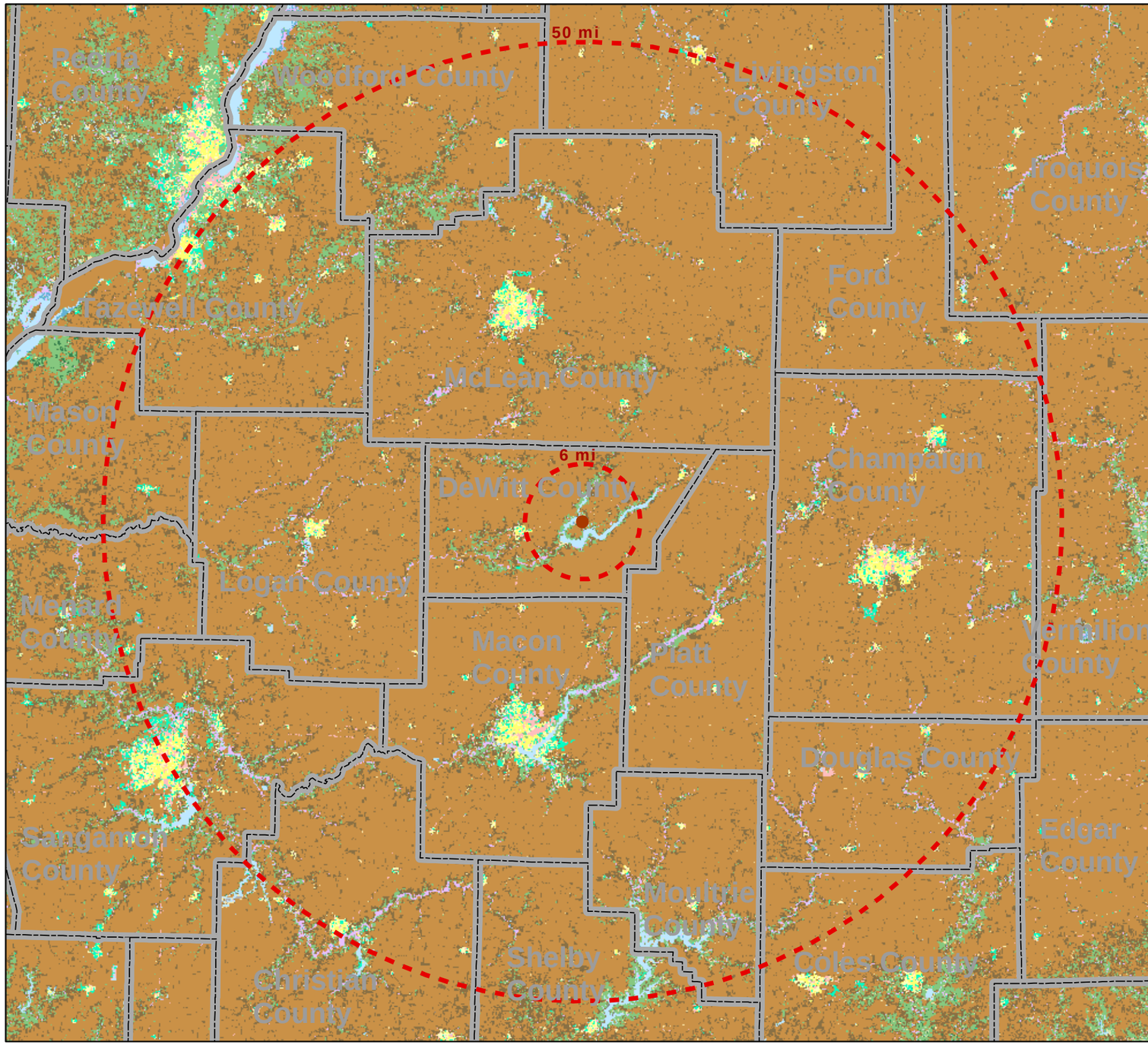

Environmental Report for the EGC Early Site Permit
Figure 2.2-4
Proposed Transmission Line Corridor
Legend
EGC ESP Site
Proposed Transmission Corridor
Pipelines
Electrical Lines
Interstate, Fully access controlled
U.S. Highway, Multilane divided
U.S. Highway
State Route
Railroads
Water: Lakes and Rivers
Incorporated/Designated Places
County Boundary
Data Sources:
IDNR, 1993
IDNR, 1984
U.S. Census Bureau, 2000
U.S. Census Bureau, 2002
U.S. Census Bureau, 2002a
Normal
Bloomington
Lincoln
Clinton
Decatur
Champaign
Urbana
Rantoul
McLean County
Ford County
Champaign County
Logan County
DeWitt County
Macon County
Piatt County
Douglas County
74
55
72
9
122
150
165
54
51
10
48
45
105
130
36
N
Miles
0
4
8
16

Figure 2.2-5
Land Use/Land Cover in the Region



Legend

- EGC ESP Site
- Vicinity: 6-mi radius around site
- Region: 50-mi radius around site
- County Boundary

Land Use/Cover

- Open Water
- Low Intensity Residential
- High Intensity Residential
- Commercial/Industrial/Transportation
- Bare Rock/Sand/Clay
- Quarries/Strip Mines/Gravel Pits
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrubland
- Orchards/Vineyards/Other
- Grasslands/Herbaceous
- Pasture/Hay
- Row Crop
- Small Grains
- Recreational Grasses
- Woody Wetlands
- Herbaceous Wetlands

Data Sources:
USGS, 1992
U.S. Census Bureau, 2002a

N

Miles
0 5 10 20

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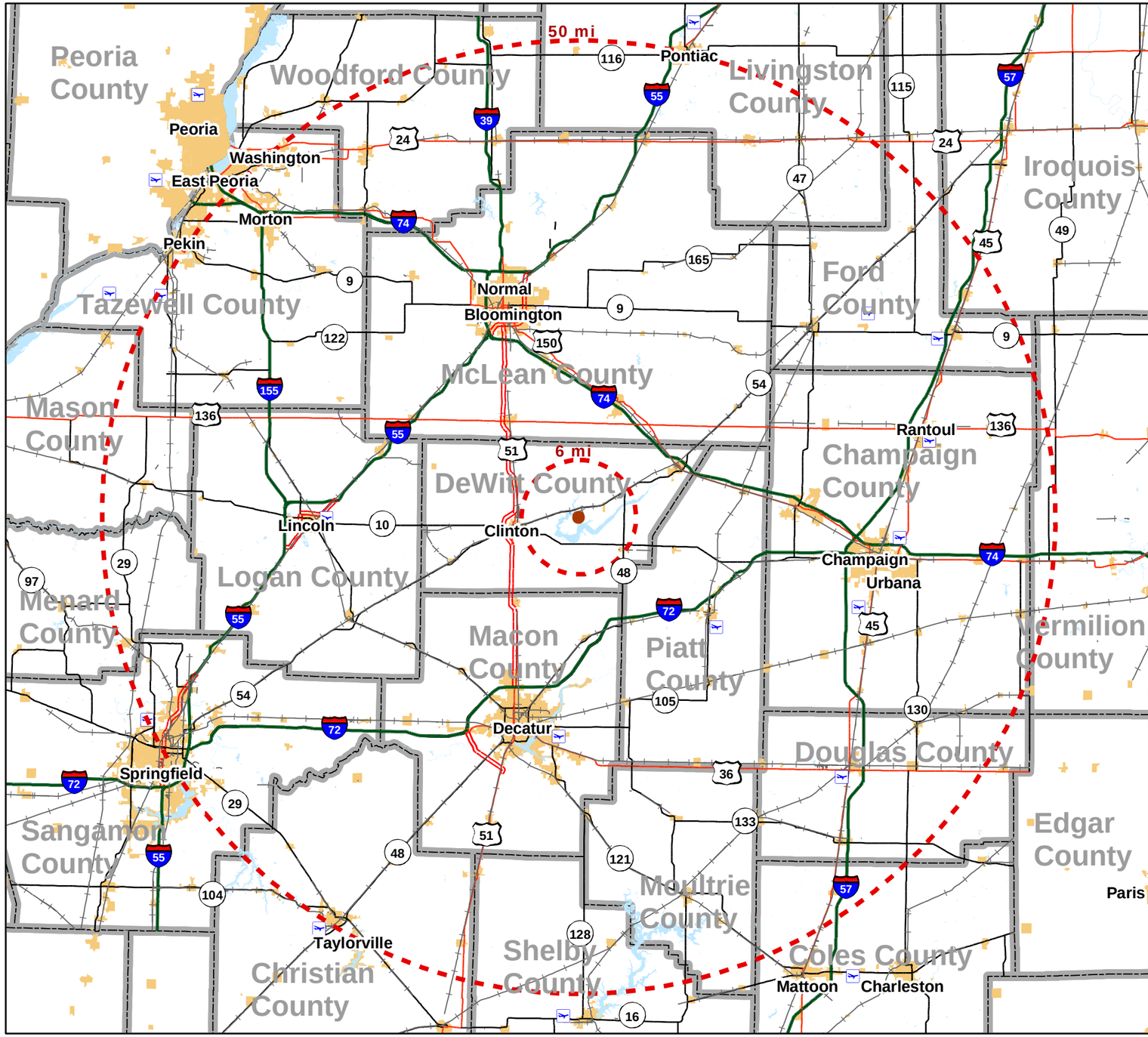
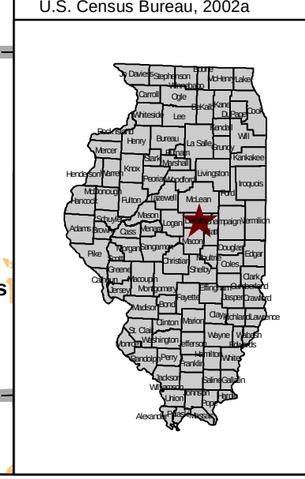
Figure 2.2-6
Regional Transportation Network



Legend

- EGC ESP Site
- Vicinity: 6-mi radius around site
- Region: 50-mi radius around site
- Airports
- Interstate, Fully access controlled
- U.S. Highway, Multilane divided
- U.S. Highway
- State Route
- Railroads
- Water: Lakes and Rivers
- Incorporated/Designated Places
- County Boundary

Data Sources:
Bureau of Transportation Statistics, 2000
U.S. Census Bureau, 2000
U.S. Census Bureau, 2002
U.S. Census Bureau, 2002a



N

Miles
0 5 10 20

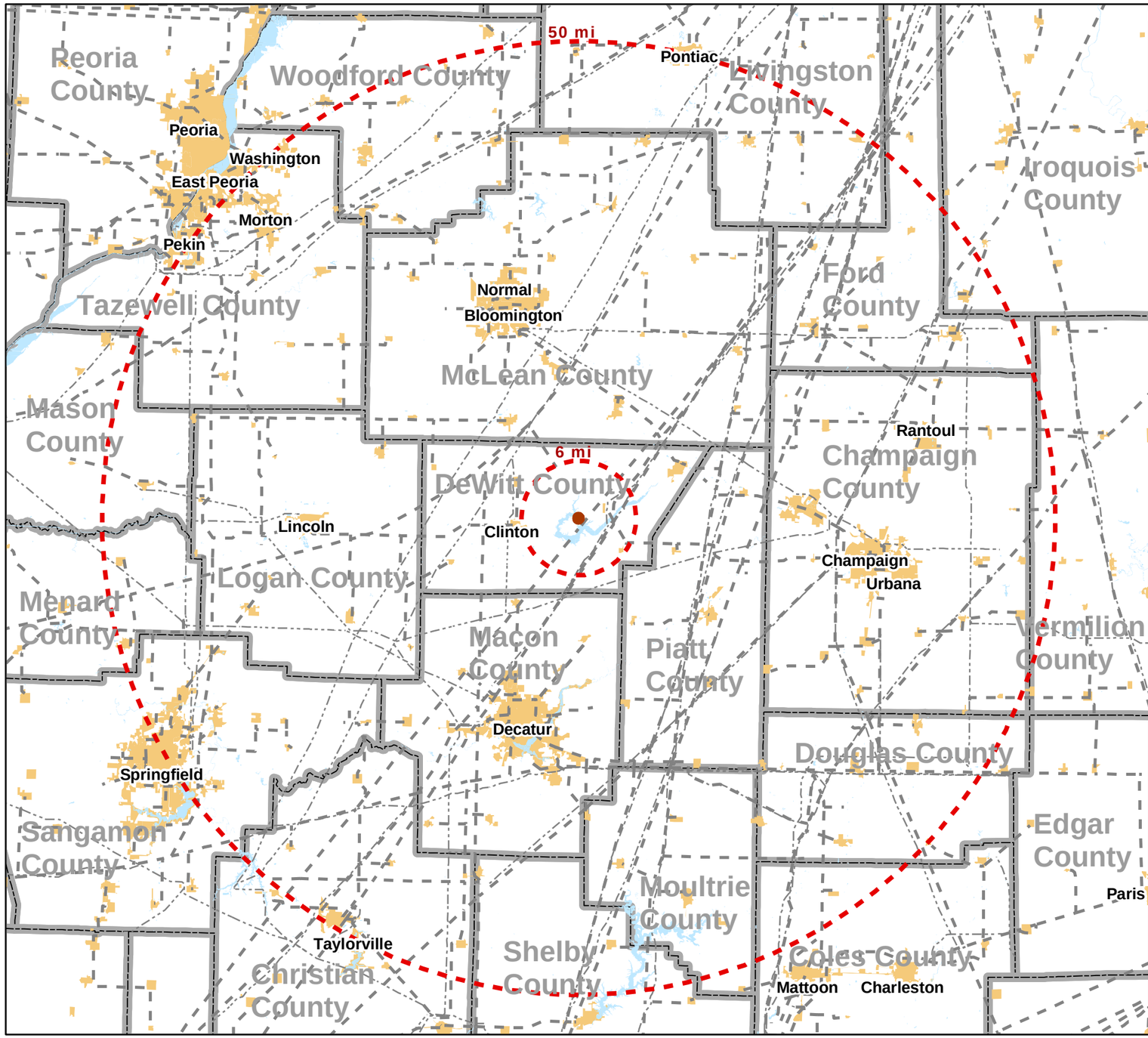


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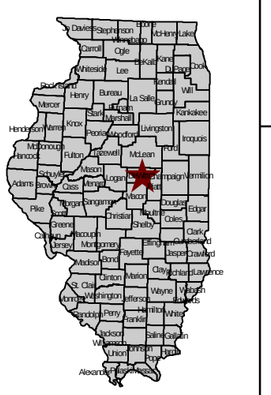
Figure 2.2-7
Regional Utility Network

Legend

- EGC ESP Site
- Vicinity: 6-mi radius around site
- Region: 50-mi radius around site
- Pipelines
- Electrical Lines
- Water: Lakes and Rivers
- Incorporated/Designated Places
- County Boundary

Data Sources:
IDNR, 1993
IDNR, 1984
U.S. Census Bureau, 2000
U.S. Census Bureau, 2002
U.S. Census Bureau, 2002a



N

0 5 10 20
Miles

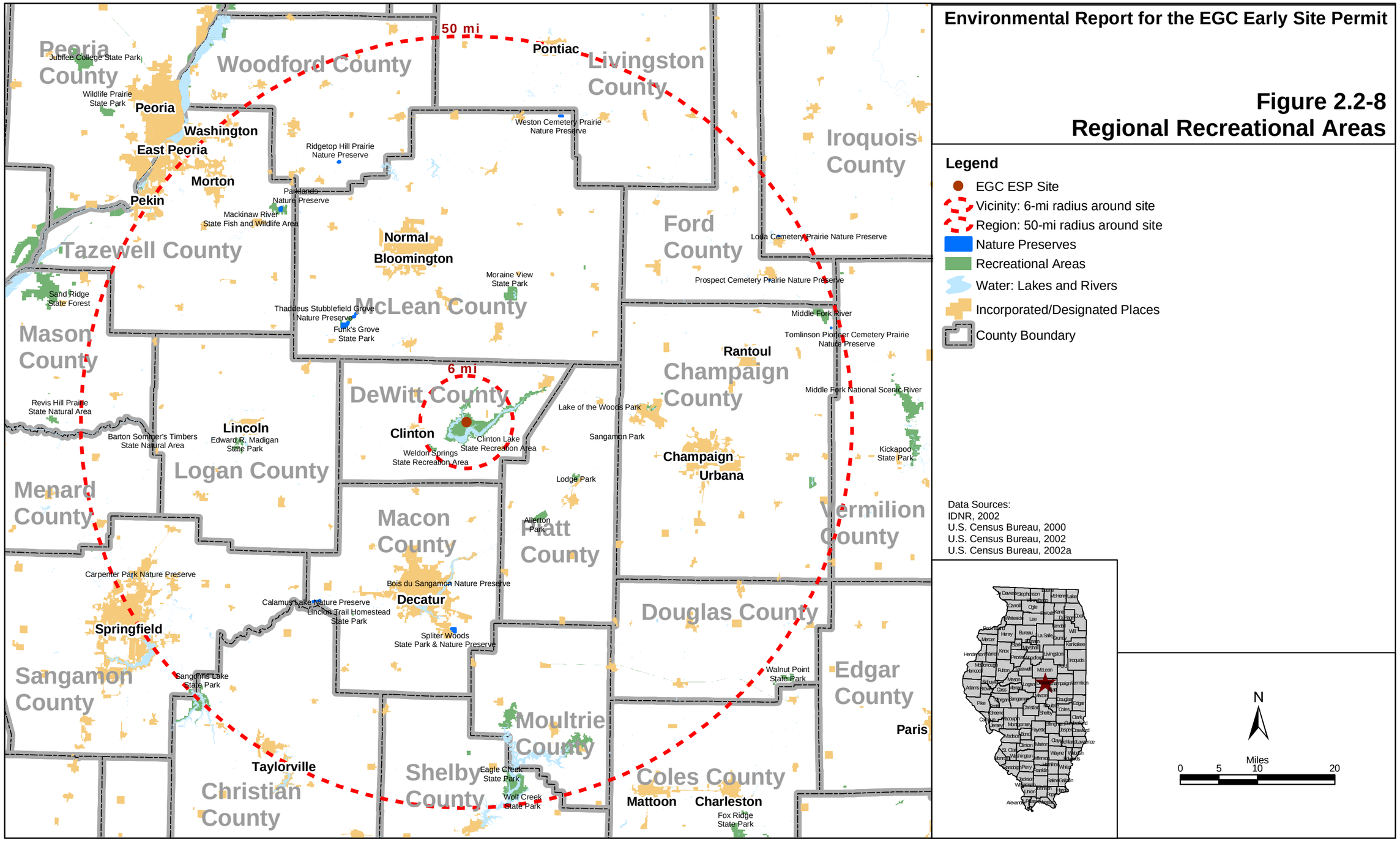

Environmental Report for the EGC Early Site Permit
Figure 2.2-8
Regional Recreational Areas
Legend
EGC ESP Site
Vicinity: 6-mi radius around site
Region: 50-mi radius around site
Nature Preserves
Recreational Areas
Water: Lakes and Rivers
Incorporated/Designated Places
County Boundary
Data Sources:
IDNR, 2002
U.S. Census Bureau, 2000
U.S. Census Bureau, 2002
U.S. Census Bureau, 2002a
N
Miles
0
5
10
20
50 mi
6 mi
Peoria County
Woodford County
Livingston County
Iroquois County
Tazewell County
Ford County
McLean County
Mason County
DeWitt County
Champaign County
Logan County
Menard County
Macon County
Piatt County
Vermilion County
Douglas County
Sangamon County
Moultrie County
Shelby County
Christian County
Coles County
Edgar County
Pontiac
Peoria
Washington
East Peoria
Morton
Pekin
Normal
Bloomington
Rantoul
Champaign
Urbana
Lincoln
Clinton
Decatur
Springfield
Taylorville
Mattoon
Charleston
Paris
Jubilee College State Park
Wildlife Prairie State Park
Ridgetop Hill Prairie Nature Preserve
Weston Cemetery Prairie Nature Preserve
Parklands Nature Preserve
Mackinaw River State Fish and Wildlife Area
Loda Cemetery Prairie Nature Preserve
Prospect Cemetery Prairie Nature Preserve
Moraine View State Park
Sand Ridge State Forest
Thaddeus Stubblefield Grove Nature Preserve
Funk's Grove State Park
Middle Fork River
Tomlinson Pioneer Cemetery Prairie Nature Preserve
Middle Fork National Scenic River
Revis Hill Prairie State Natural Area
Barton Sommer's Timbers State Natural Area
Edward R. Madigan State Park
Lake of the Woods Park
Sangamon Park
Clinton Lake State Recreation Area
Weldon Springs State Recreation Area
Kickapoo State Park
Lodge Park
Allerton Park
Carpenter Park Nature Preserve
Bois du Sangamon Nature Preserve
Calamus Lake Nature Preserve
Lincoln Trail Homestead State Park
Spliter Woods State Park & Nature Preserve
Sangchris Lake State Park
Walnut Point State Park
Eagle Creek State Park
Wolf Creek State Park
Fox Ridge State Park

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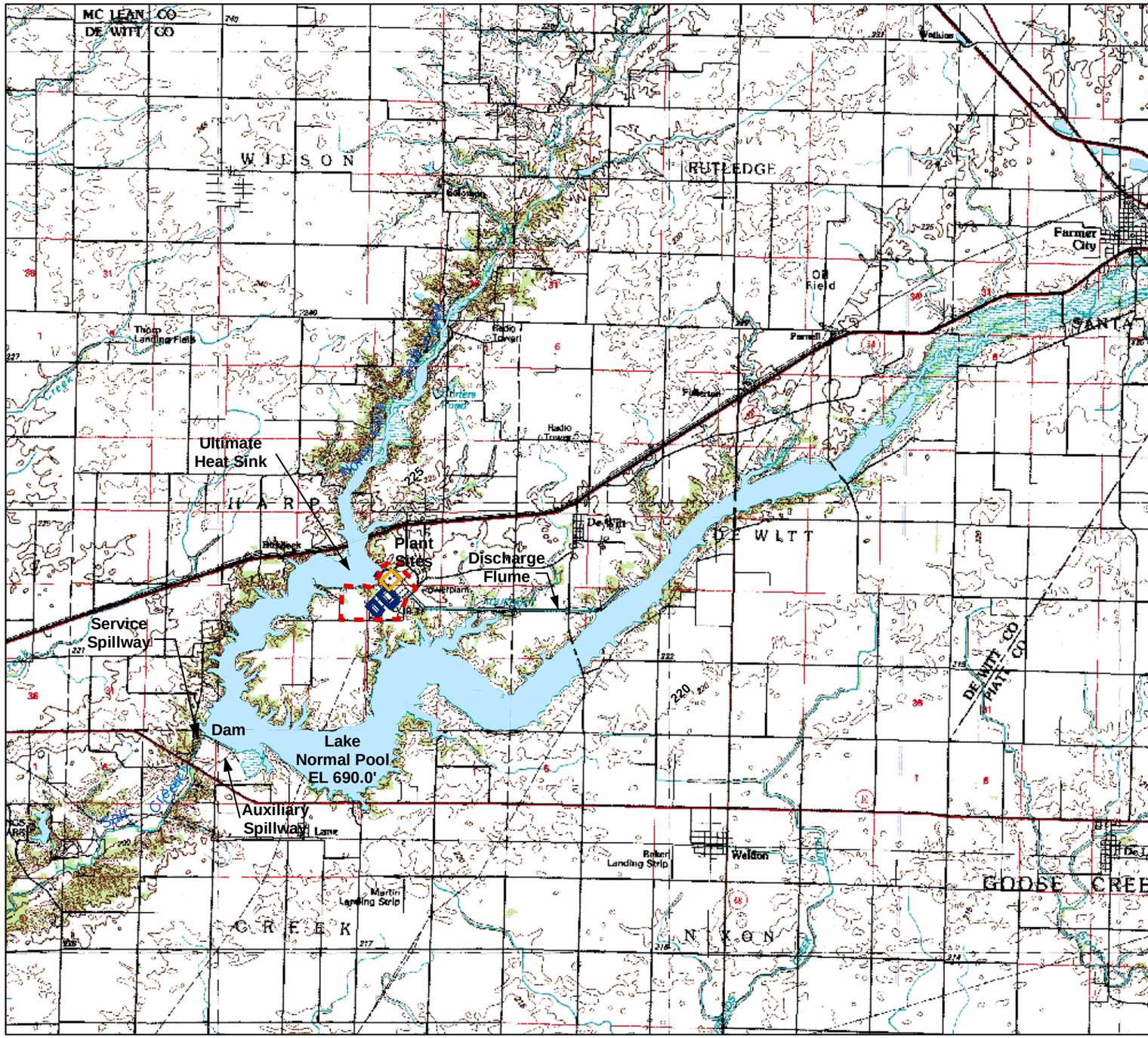
Figure 2.3-1
Plant Location and Clinton Lake Impoundment



Legend

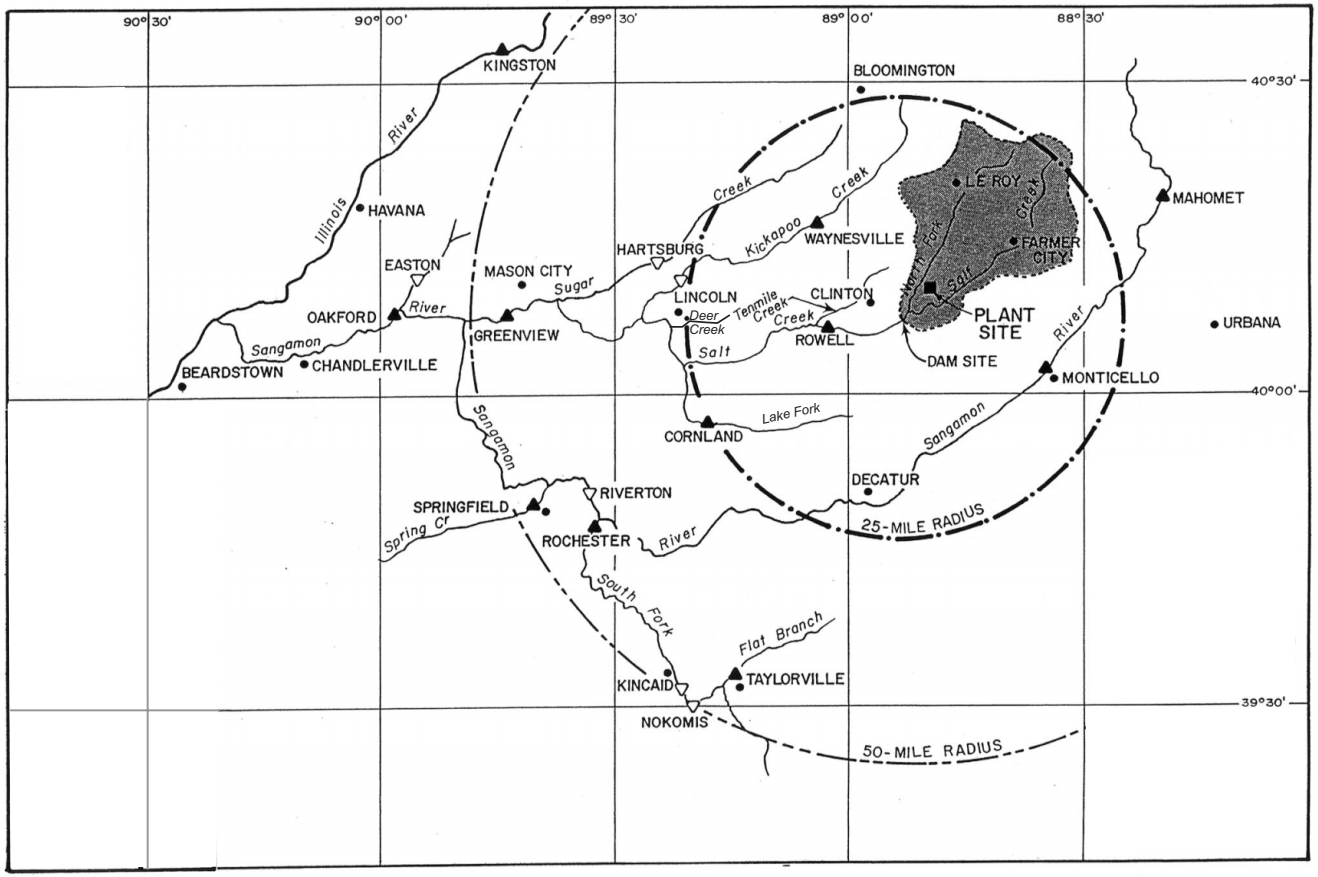
- CPS Facility
- Proposed Areas for EGC ESP Facility Structures
- Site Boundary: Fenceline
- Water: Lakes and Rivers

Data Sources:
U.S. Census Bureau, 2000
USGS, 1984 and 1989

N

Miles
0 0.5 1 2

Figure 2.3-2
Hydrologic Network
Sangamon River Basin



Legend

- ▲ Recording Station
- ▽ Discontinued Station
- • Cities

Data Source:
CPS, 1982

N

Not to Scale

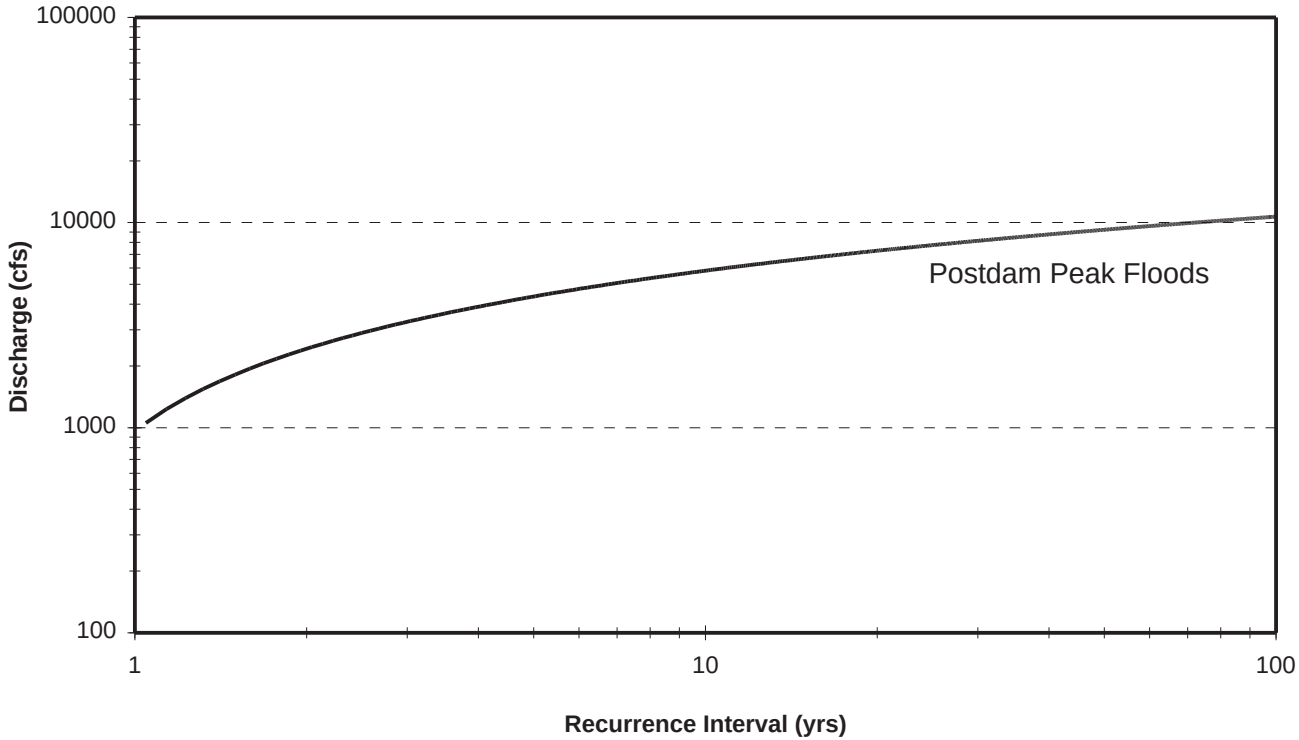


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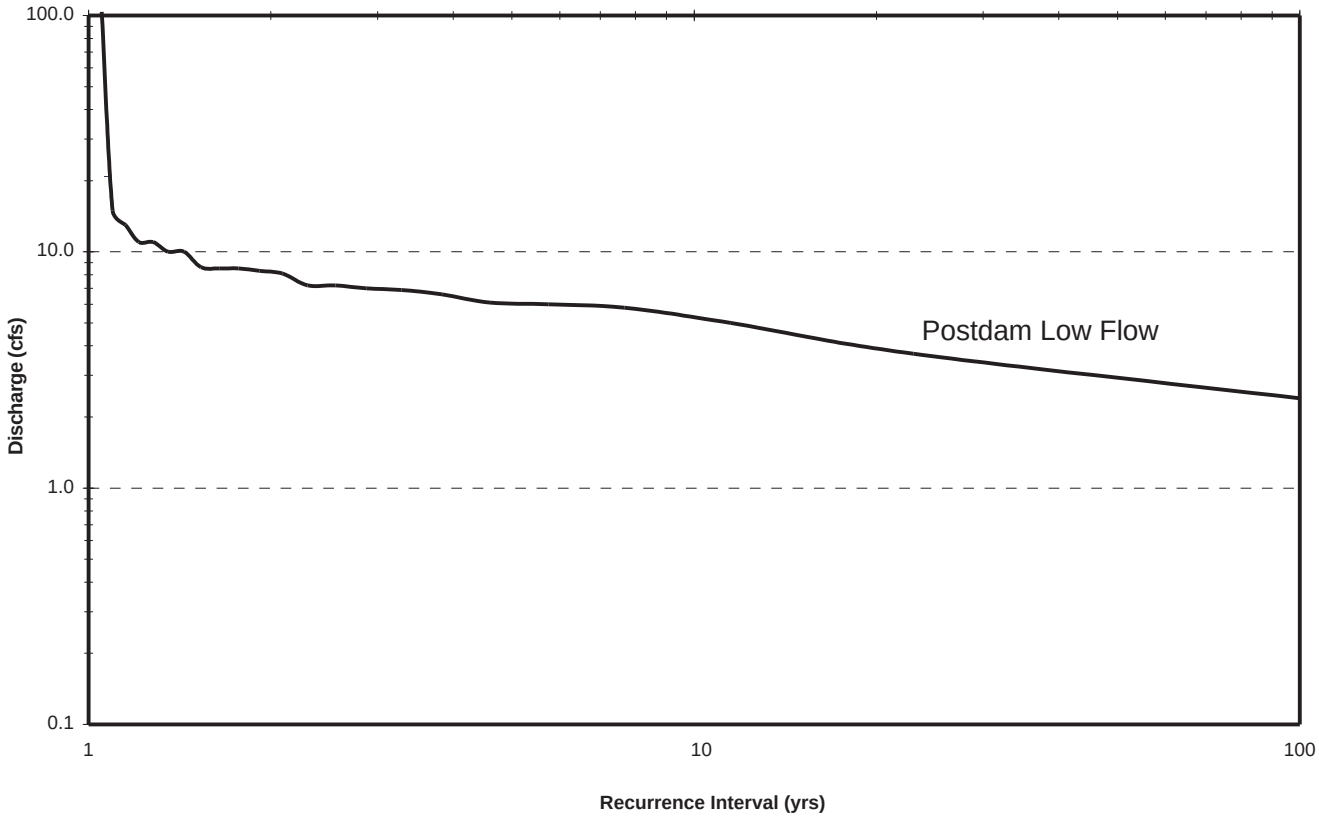
Figure 2.3-3

Postdam Peak Flood Magnitudes and Frequencies for Salt Creek at Rowell Gauge Station

Data Source:
USGS, 2002

Not to Scale



Environmental Report for the EGC Early Site Permit

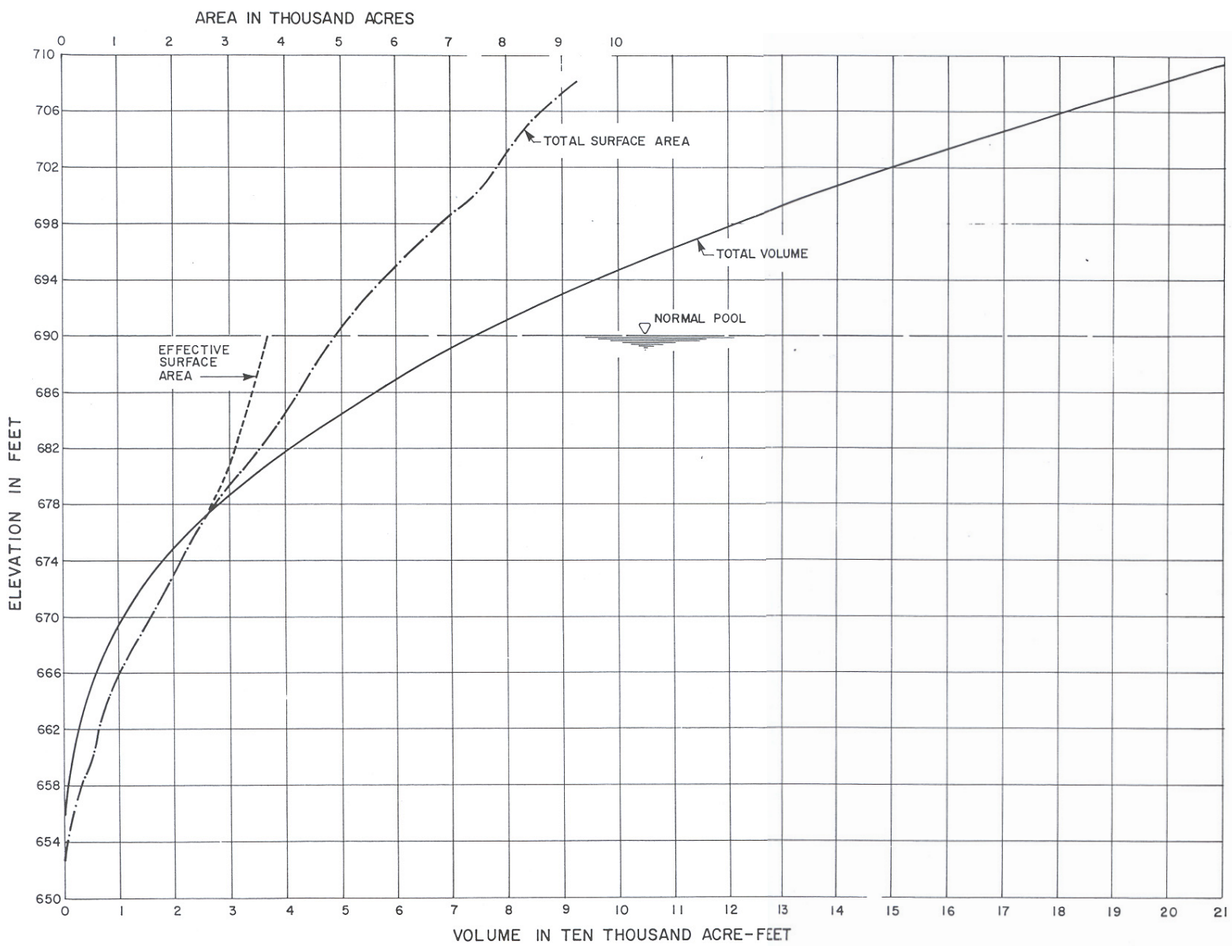
Figure 2.3-4

Postdam 1-Day Duration, Low-Flow Magnitudes and Frequencies for Salt Creek at Rowell Gauge Station

Data Source:
USGS, 2002

Not to Scale

Figure 2.3-5
Lake Elevation-Area Capacity Curves



ELEVATION IN FEET	AREA IN ACRES	CAPACITY IN ACRE-FEET
680	3,100	33,900
682	3,550	40,600
684	3,930	48,000
686	4,250	56,000
688	4,520	64,800
690	4,895	74,200
692	5,210	83,600
694	5,700	95,000
696	6,140	106,300
698	6,800	120,000
700	7,380	133,300
702	7,800	149,000
704	8,180	164,300
706	8,600	182,000
708	9,260	199,200

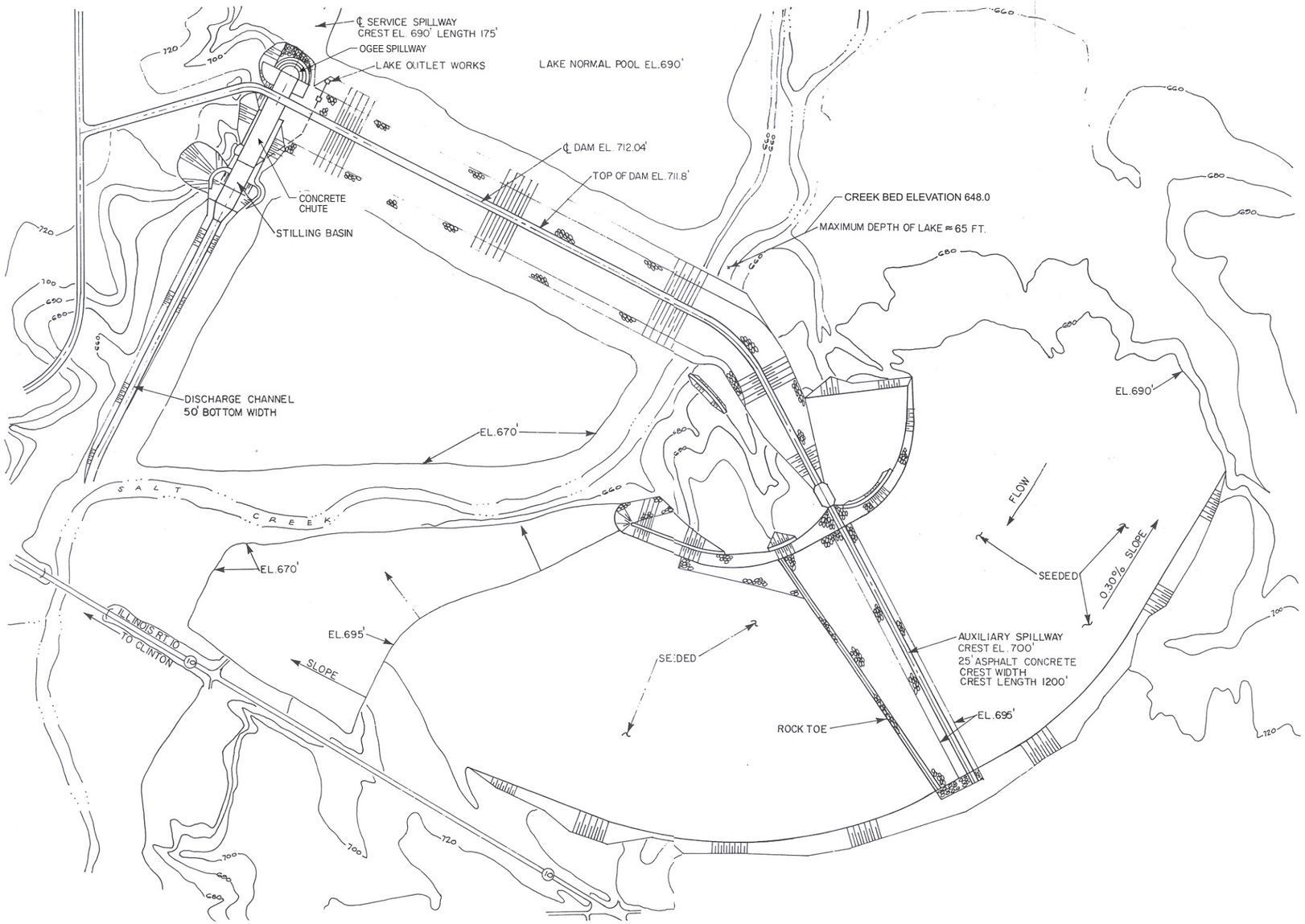
Legend

- — — — Effective Surface Area
- —·—·— Total Surface Area
- ——— Total Volume

Data Source:
CPS, 1982

Not to Scale

Figure 2.3-6
Plan of Main Dam, Spillways, and Outlet Works



Data Source:
CPS, 1982

N

Not to Scale