Section 4906-4-08 Figures

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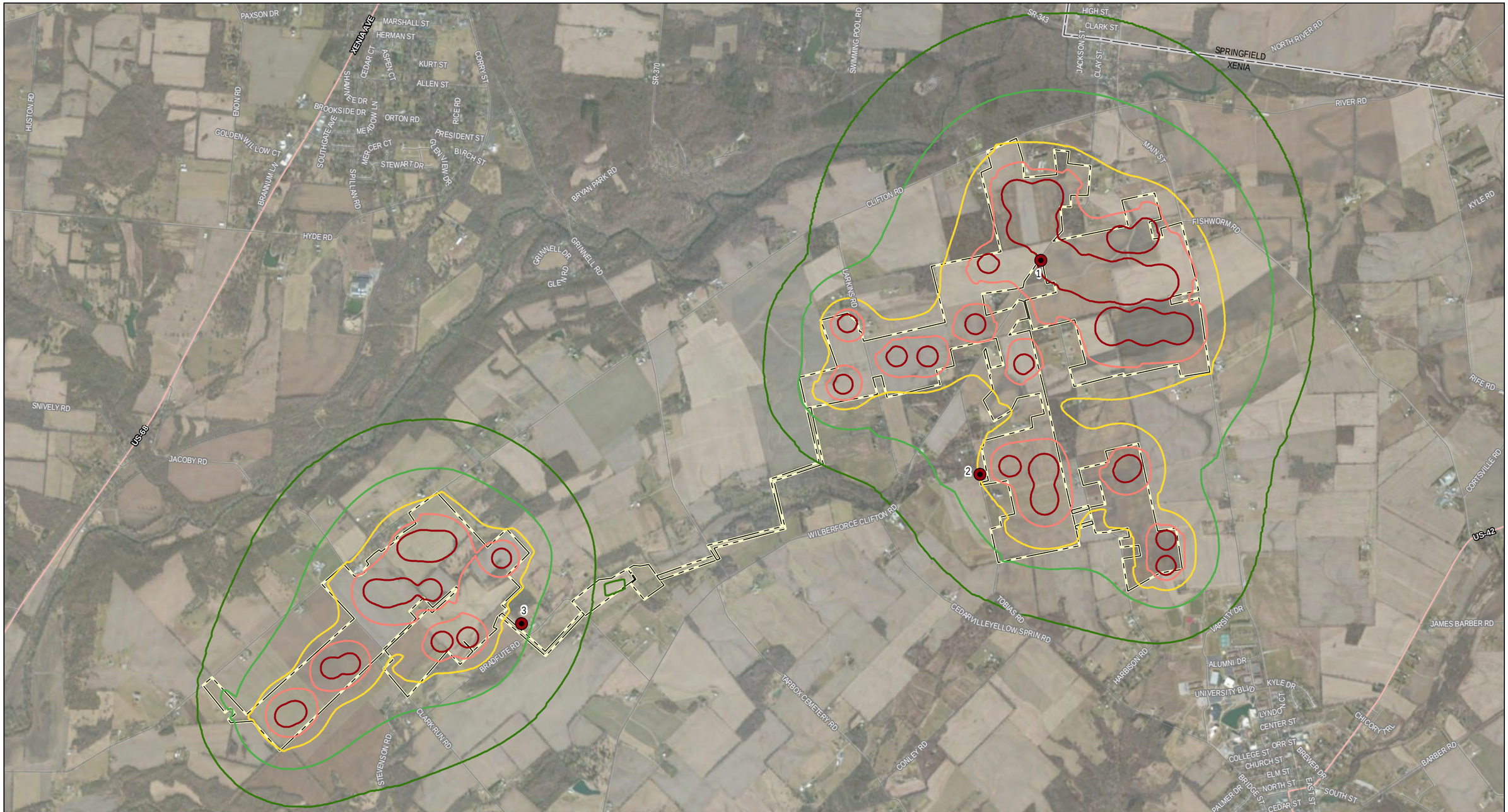
- Figure 08-2: Water Wells and Water Protection Areas
- Figure 08-3: Groundwater Resources
- Figure 08-4: Floodplains and Karst Geology
- Figure 08-5: Existing Oil, Gas, and Injection Wells
- Figure 08-6: Soils
- Figure 08-7: Natural Resources within One Half Mile
- Figure 08-8: Delineated Wetlands
- Figure 08-9: Ecological Impacts
- Figure 08-10: Ecological Communities
- Figure 08-11: Land Use within One Mile
- Figure 08-12: Structures within 1,500 feet of the Project Area
- Figure 08-13: Structures within 250 feet of Project Components
- Figure 08-14: Cultural Resource and Recreational Areas
- Figure 08-15: Photographic Simulations
- Figure 08-16: Agricultural Land



LEGEND

- NOISE MONITORING LOCATION
- SOUND LEVEL CONTOUR, IN DECIBELS (dB)
  - 25
  - 30
  - 35
  - 40
  - 45
- ROAD
- HIGHWAY
- PROJECT AREA
- COUNTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. COUNTY BOUNDARY AND ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
3. AERIAL IMAGERY SOURCE: ESRI

N

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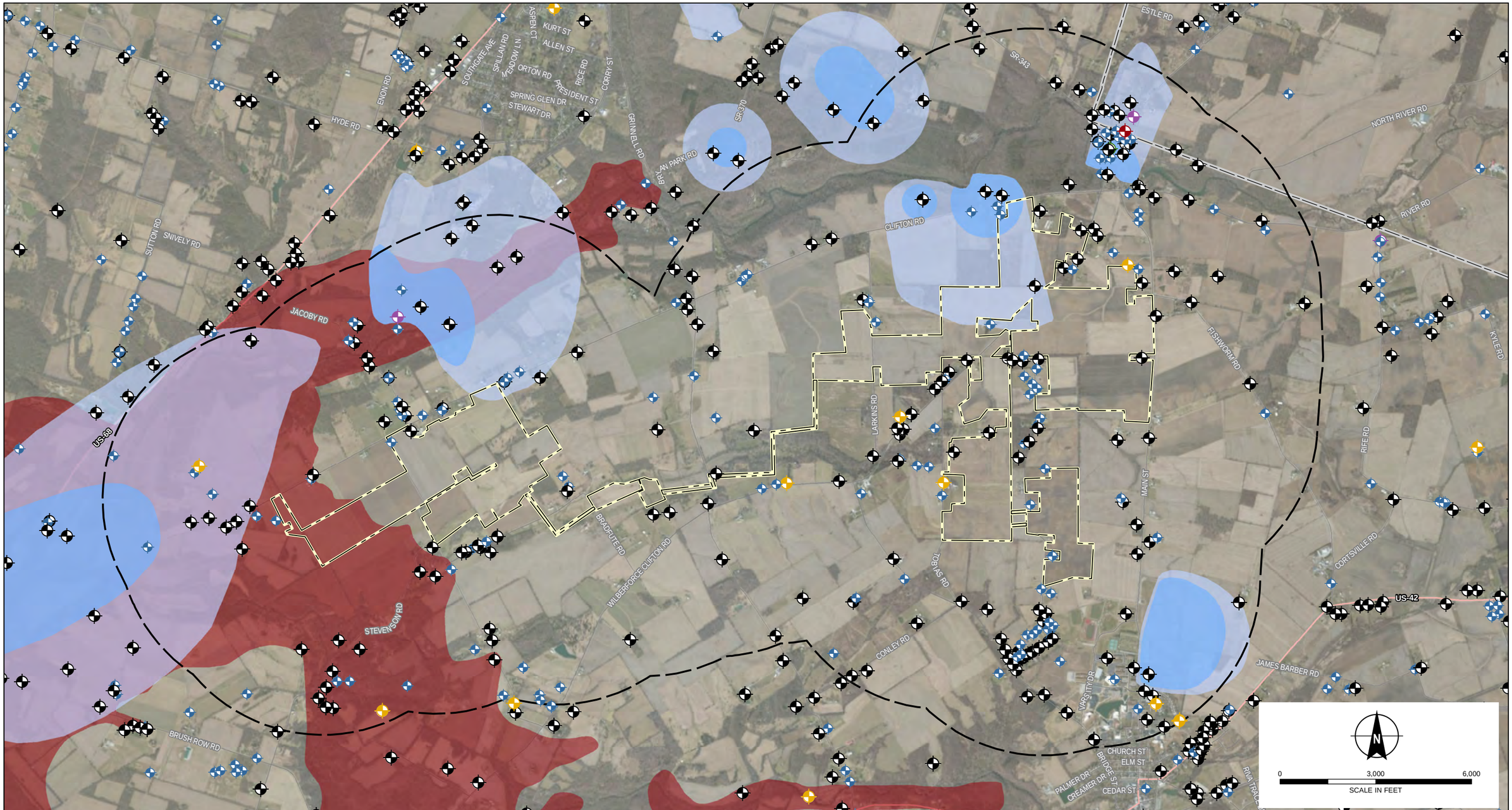
SCALE IN FEET

HALEY ALDRICH

Figure 08-1
Received Sound Levels

Kingwood Solar
Greene County, Ohio



LEGEND

WATER SUPPLY WELL BY USE

- AGRICULTURAL
- COMMERCIAL
- RESIDENTIAL
- MUNICIPAL
- PUBLIC
- OTHER OR UNKNOWN
- ROAD
- HIGHWAY
- INNER MANAGEMENT ZONE PROTECTION AREA (GROUNDWATER)
- OUTER MANAGEMENT ZONE PROTECTION AREA
- SOLE SOURCE AQUIFERS
- PROJECT AREA
- COUNTY BOUNDARY

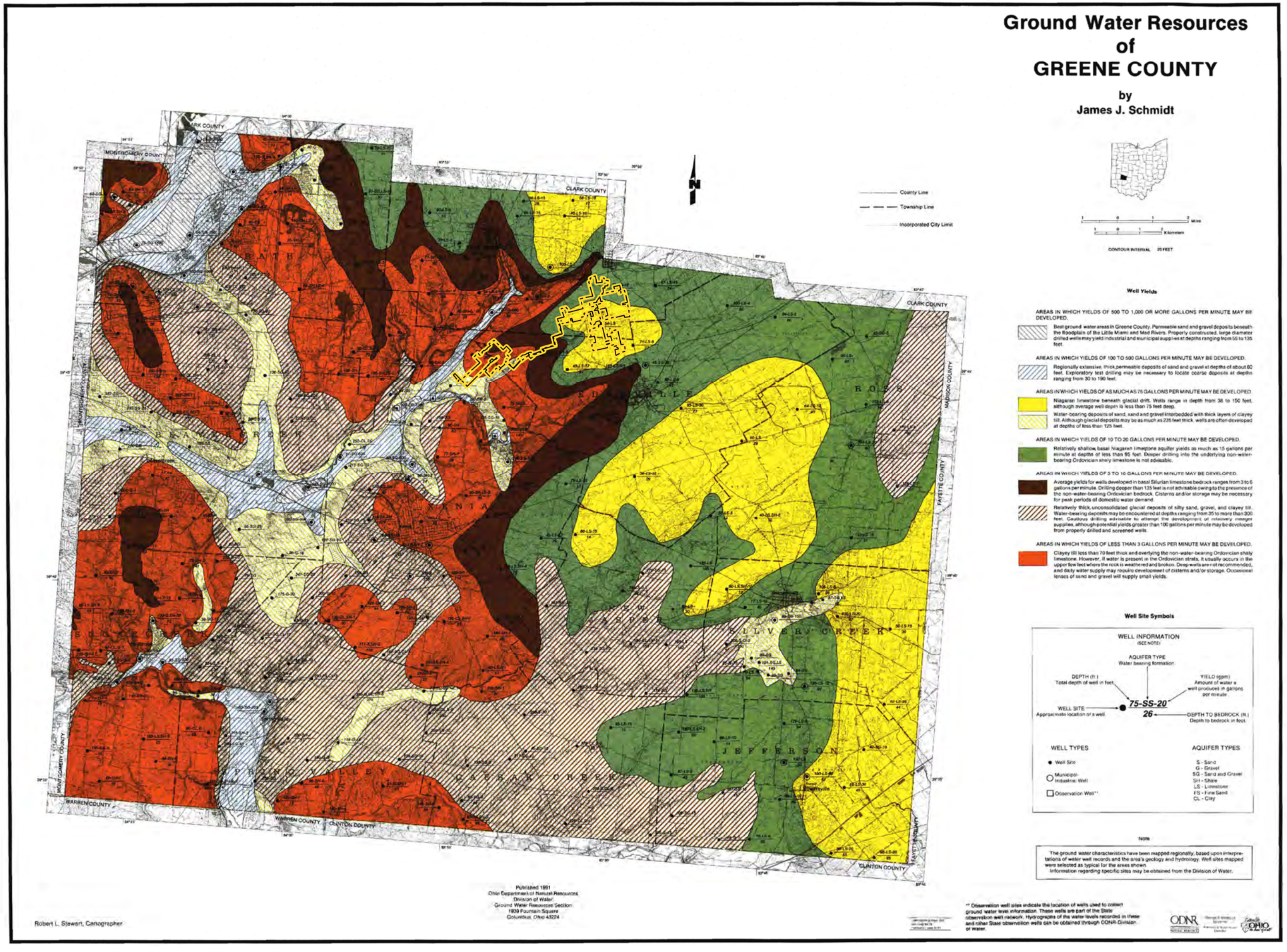
NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. WATER WELLS DATA SOURCE: OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR)
3. WATER PROTECTION AREAS AND SOLE SOURCE AQUIFERS DATA SOURCE: OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA)
4. COUNTY BOUNDARY AND ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

Figure 08-2
Water Wells and Water Protection Areas

Kingwood Solar
Greene County, Ohio



LEGEND

PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

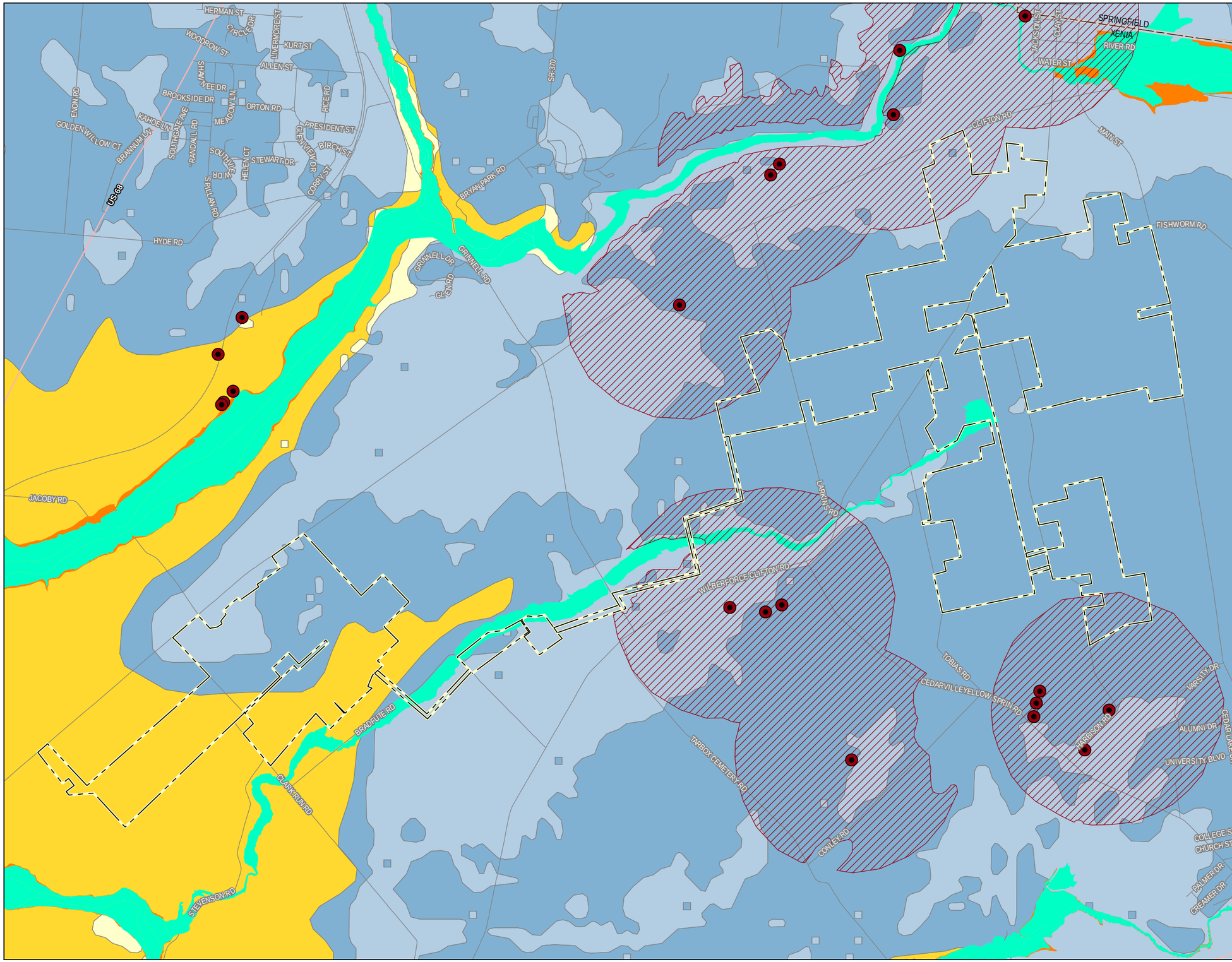
2. GROUNDWATER RESOURCE MAP SOURCE: OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR)

0 2 4
SCALE IN MILES

HALEY ALDRICH

Figure 08-3
Groundwater Resources

Kingwood Solar
Greene County, Ohio



LEGEND

- KARST FEATURE
- ROAD
- HIGHWAY
- 1% ANNUAL CHANCE FLOOD HAZARD
- 0.2 ANNUAL CHANCE FLOOD HAZARD
- PROBABLE KARST

KARST GEOLOGY

- SILURIAN- AND DEVONIAN-AGE CARBONATE BEDROCK OVERLAIN BY LESS THAN 20 FEET OF GLACIAL DRIFT AND/OR ALLUVIUM
- SILURIAN- AND DEVONIAN-AGE CARBONATE BEDROCK OVERLAIN BY MORE THAN 20 FEET OF GLACIAL DRIFT AND/OR ALLUVIUM
- INTERBEDDED ORDOVICIAN-AGE LIMESTONE AND SHALE OVERLAIN BY LESS THAN 20 FEET OF GLACIAL DRIFT AND/OR ALLUVIUM
- INTERBEDDED ORDOVICIAN-AGE LIMESTONE AND SHALE OVERLAIN BY MORE THAN 20 FEET OF GLACIAL DRIFT AND/OR ALLUVIUM
- PROJECT AREA
- COUNTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. 1% ANNUAL FLOOD CHANCE HAZARD ZONES REPRESENT 100-YEAR FLOOD ZONES. 0.2% ANNUAL FLOOD CHANCE HAZARD ZONES REPRESENT 500-YEAR FLOOD ZONES.

3. FLOOD ZONES DATA SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

4. KARST FEATURE, AREA, AND GEOLOGY DATA SOURCE: OHIO DEPARTMENT NATURAL RESOURCES (ODNR)

5. COUNTY BOUNDARY AND ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION

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SCALE IN FEET

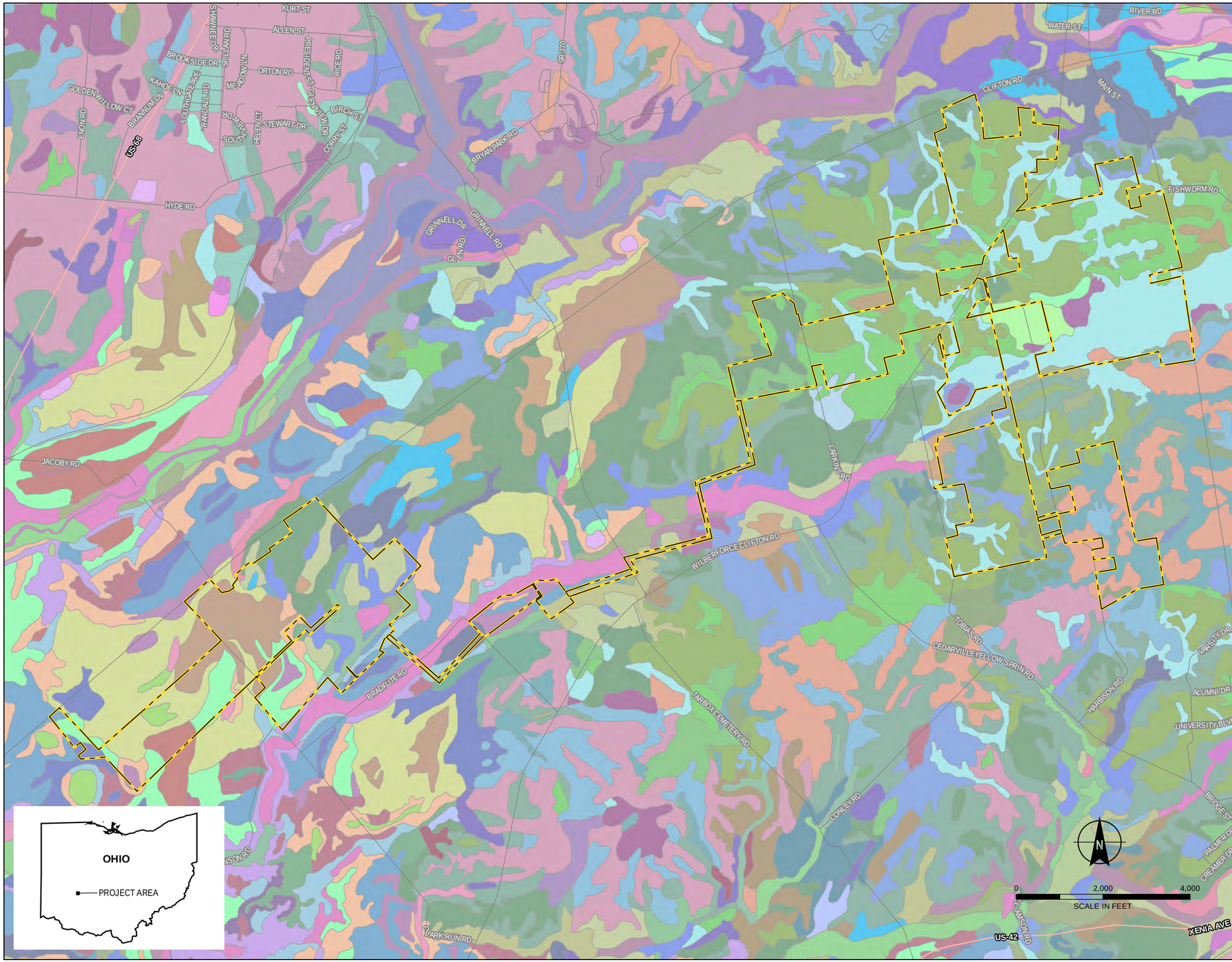
HALEY ALDRICH

Figure 08-4
Floodplains and Karst Geology

Kingwood Solar
Greene County, Ohio

Figure 08-5
Existing Oil, Gas, and Injection Wells

Kingwood Solar
Greene County, Ohio



LEGEND

ROAD
HIGHWAY
PROJECT AREA

SOIL UNIT

Ag
BbB
Bs
CcD2
CdE2
CeA
CeB
CrA
CrB
Du
Ee
EmA
EmB
EmB2
EmC2
EnC3
FnA
Gn
Ln
MUF
MhA
MhB
MhB2
MhC2
MhD2
MlC3
MlD3
MmD2
MoB2
MoC2
MpE
MpF
MrB
MrC
Ms
MtA
MtB
MtC2
OcA
OcB
OcB2
Pg
Ra
RbA
RdA
ReA
RhB
RhC
RhD
RhE2
Rs
RtA
RtB
RuA
RvB
RvB2
SlA
Sn
So
ThA
ThB
Ud
W
WeB
Ws
XeA
XeB

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. SOILS DATA SOURCE: UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS)

3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)

HALEY ALDRICH

Figure 08-6
Soils

Kingwood Solar
Greene County, Ohio

LEGEND

- STREAM OR RIVER
- ROAD
- HIGHWAY
- FRESHWATER EMERGENT WETLAND
- FRESHWATER FORESTED/SHRUB WETLAND
- OPEN WATER
- CONSERVATION AREA
- CONSERVATION EASEMENT
- LAND WITH >12% SLOPE
- PROJECT AREA
- 0.5-MILE BUFFER OF PROJECT AREA
- COUNTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. STREAM OR RIVER DATA SOURCE: USGS NATIONAL HYDROGRAPHY DATASET (NHD)
3. WETLANDS DATA SOURCE: USFWS NATIONAL WETLANDS INVENTORY (NWI)
4. CONSERVATION AREAS DATA SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS) PROTECTED AREAS DATABASE (PAD)
5. COUNTY BOUNDARY AND ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
6. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

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SCALE IN FEET

SHEET INDEX

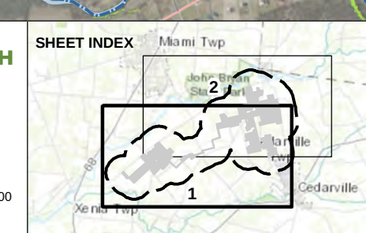

Figure 08-7
Natural Resources within One Half Mile

Sheet 1 of 2

Kingwood Solar
Greene County, Ohio

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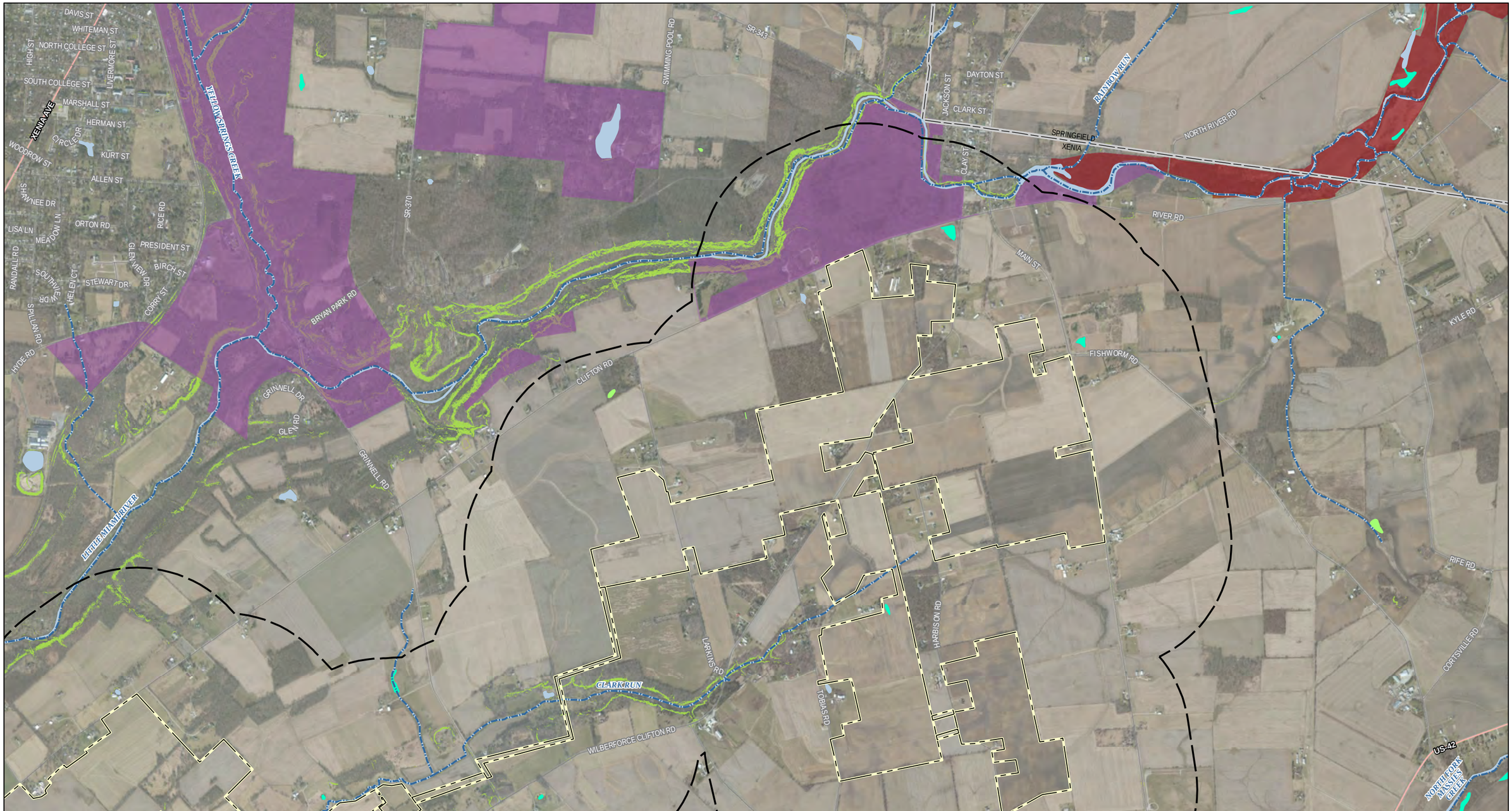

LEGEND

- STREAM OR RIVER
- ROAD
- HIGHWAY
- FRESHWATER EMERGENT WETLAND
- FRESHWATER FORESTED/SHRUB WETLAND
- OPEN WATER
- CONSERVATION AREA
- CONSERVATION EASEMENT
- LAND WITH >12% SLOPE
- PROJECT AREA
- 0.5-MILE BUFFER OF PROJECT AREA
- COUNTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. STREAM OR RIVER DATA SOURCE: USGS NATIONAL HYDROGRAPHY DATASET (NHD)
3. WETLANDS DATA SOURCE: USFWS NATIONAL WETLANDS INVENTORY (NWI)
4. CONSERVATION AREAS DATA SOURCE: UNITED STATES GEOLOGICAL SURVEY (USGS) PROTECTED AREAS DATABASE (PAD)
5. COUNTY BOUNDARY AND ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
6. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

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SCALE IN FEET

SHEET INDEX

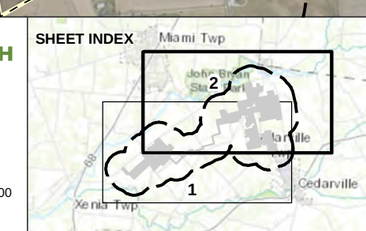

Figure 08-7
Natural Resources within One Half Mile

Sheet 2 of 2

Kingwood Solar
Greene County, Ohio

LEGEND

- ROAD
- DELINEATED STREAM
- OPEN WATER
- DELINEATED WETLAND
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DELINEATED STREAMS AND WETLANDS DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

SHEET INDEX

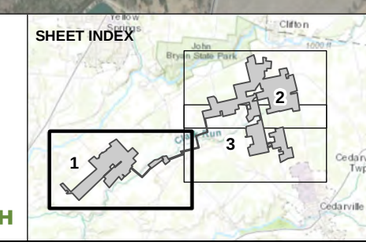

Figure 08-8
Delineated Wetlands

Sheet 1 of 3

Kingwood Solar
Greene County, Ohio

LEGEND

- ROAD
- DELINEATED STREAM
- OPEN WATER
- DELINEATED WETLAND
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DELINEATED STREAMS AND WETLANDS DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

SHEET INDEX

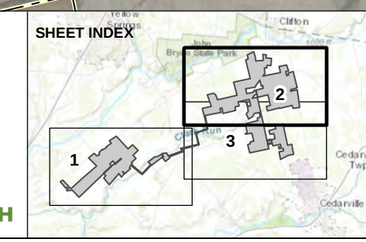

Figure 08-8
Delineated Wetlands

Sheet 2 of 3

Kingwood Solar
Greene County, Ohio

LEGEND

- ROAD
- DELINEATED STREAM
- OPEN WATER
- DELINEATED WETLAND
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DELINEATED STREAMS AND WETLANDS DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

SHEET INDEX

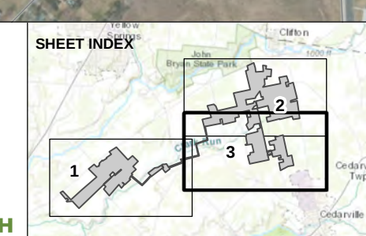
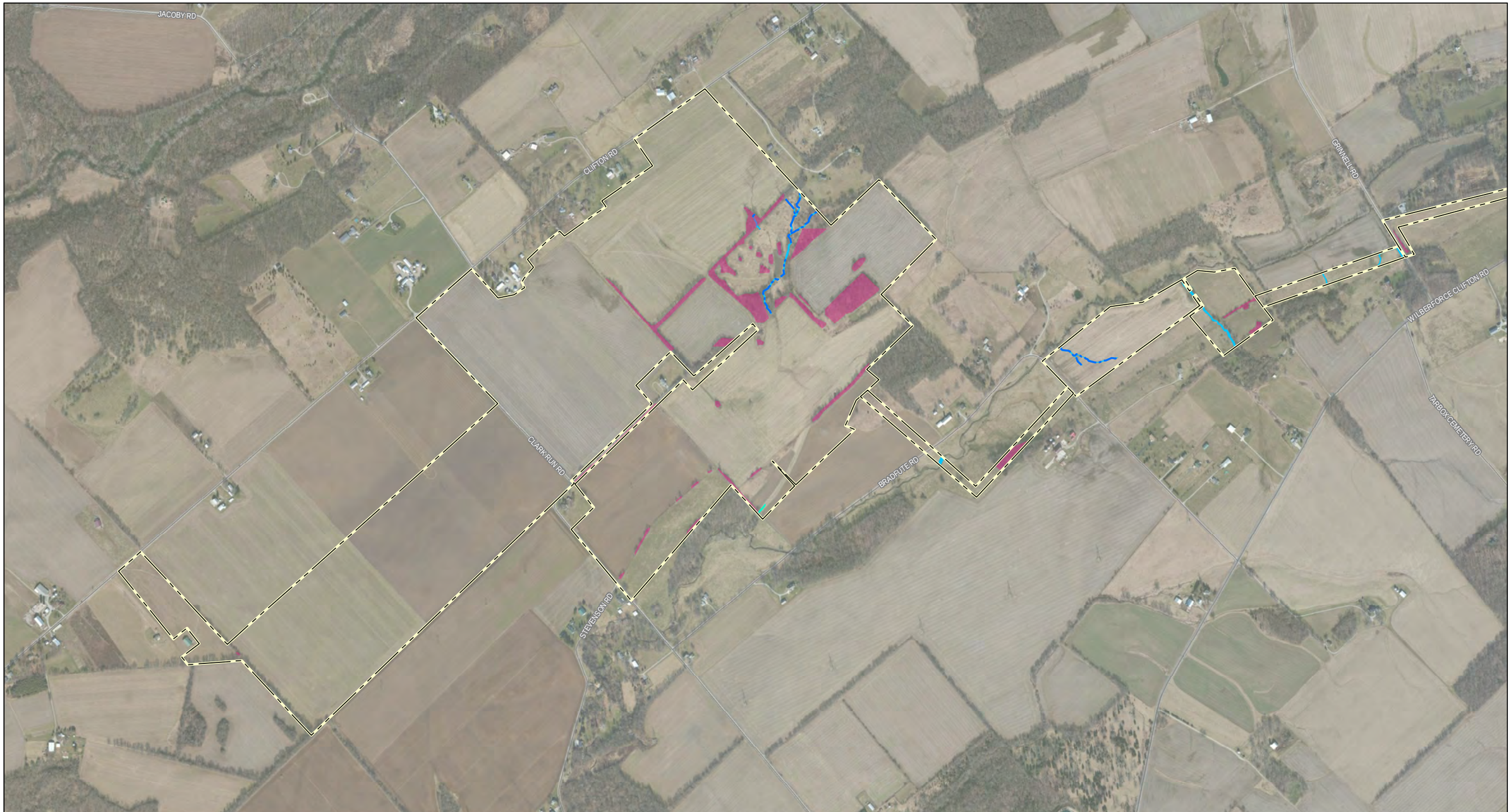


Figure 08-8
Delineated Wetlands

Sheet 3 of 3

Kingwood Solar
Greene County, Ohio



LEGEND

- ROAD
- DELINEATED STREAM
- OPEN WATER
- DELINEATED WETLAND
- TREE CLEARING AREA
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DELINEATED STREAMS AND WETLANDS DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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HALEY ALDRICH

SHEET INDEX

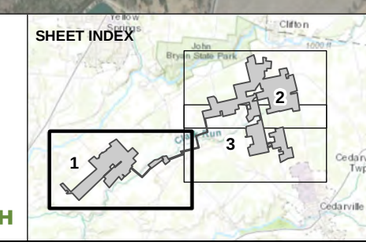

Figure 08-9
Ecological Impacts

Sheet 1 of 3

Kingwood Solar
Greene County, Ohio

LEGEND

- ROAD
- DELINEATED STREAM
- OPEN WATER
- DELINEATED WETLAND
- TREE CLEARING AREA
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DELINEATED STREAMS AND WETLANDS DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

SHEET INDEX

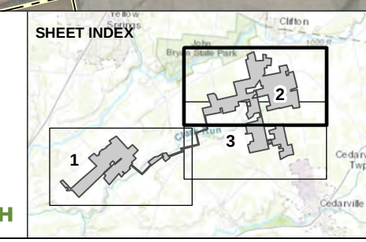

Figure 08-9
Ecological Impacts

Sheet 2 of 3

Kingwood Solar
Greene County, Ohio

LEGEND

- ROAD
- DELINEATED STREAM
- OPEN WATER
- DELINEATED WETLAND
- TREE CLEARING AREA
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DELINEATED STREAMS AND WETLANDS DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

SHEET INDEX

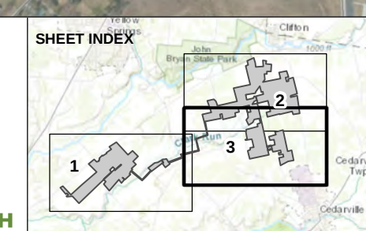
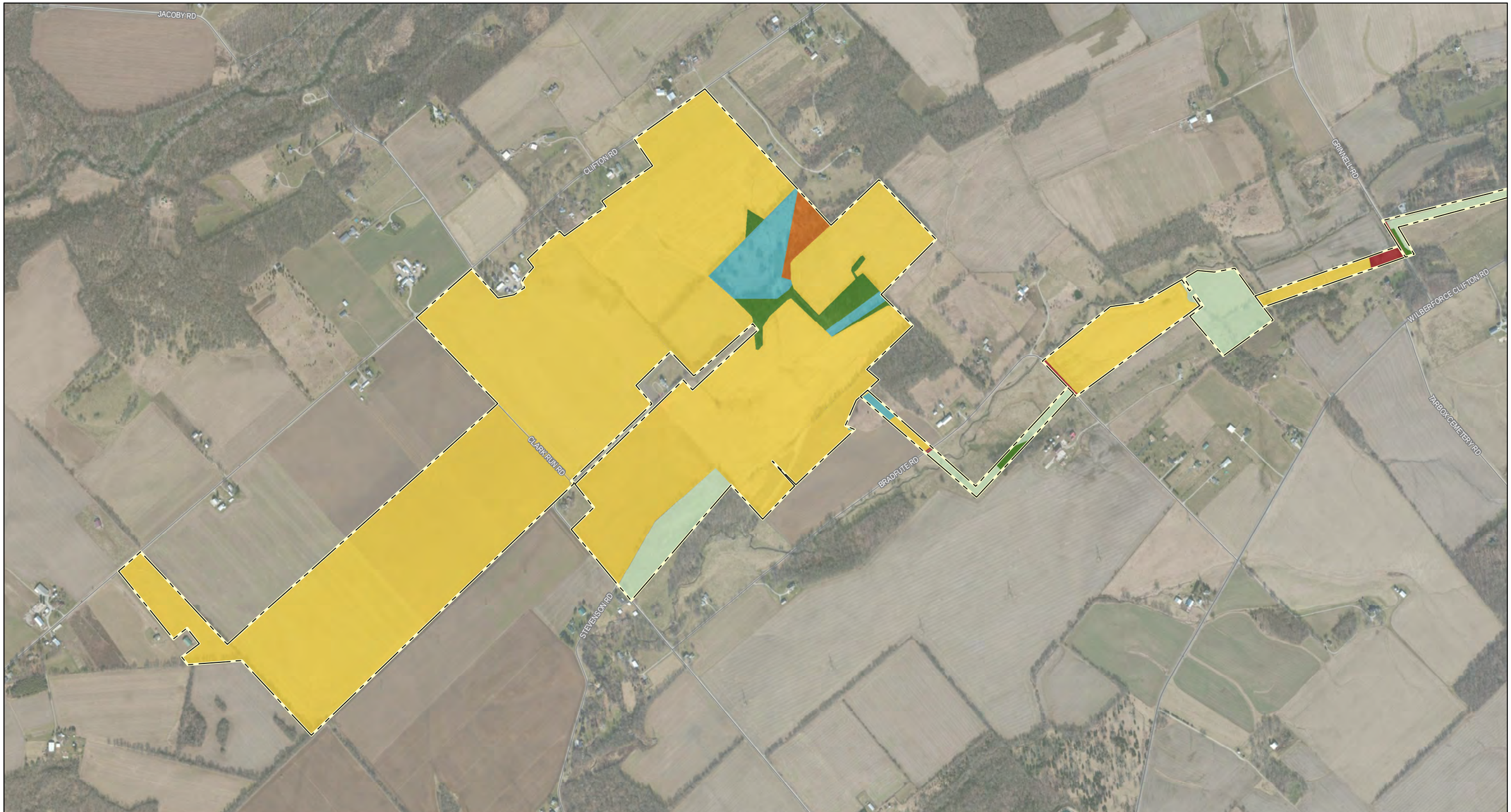


Figure 08-9
Ecological Impacts

Sheet 3 of 3

Kingwood Solar
Greene County, Ohio



LEGEND

- ROAD
- LAND COVER TYPE
  - AGRICULTURAL
  - DEVELOPED
  - FORESTED
  - HERBACEOUS
  - PASTURE
  - SCRUB SHRUB
  - PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. LAND COVER TYPE DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

SHEET INDEX

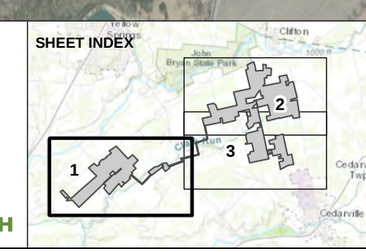
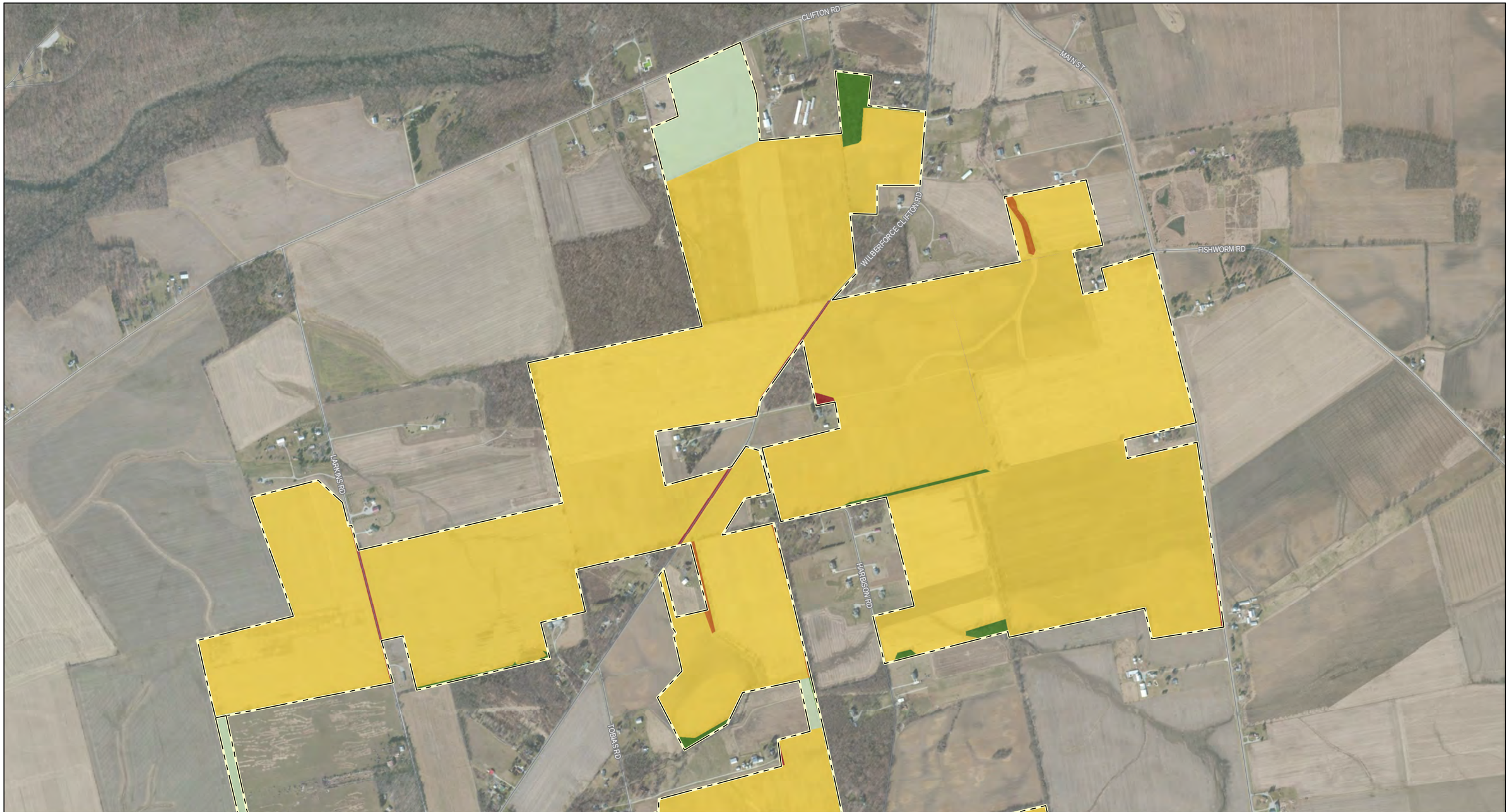


Figure 08-10
Ecological Communities

Sheet 1 of 3

Kingwood Solar
Greene County, Ohio



LEGEND

- ROAD
- LAND COVER TYPE
  - AGRICULTURAL
  - DEVELOPED
  - FORESTED
  - PASTURE
- SCRUB SHRUB
- PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. LAND COVER TYPE DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

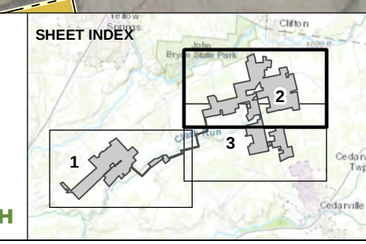
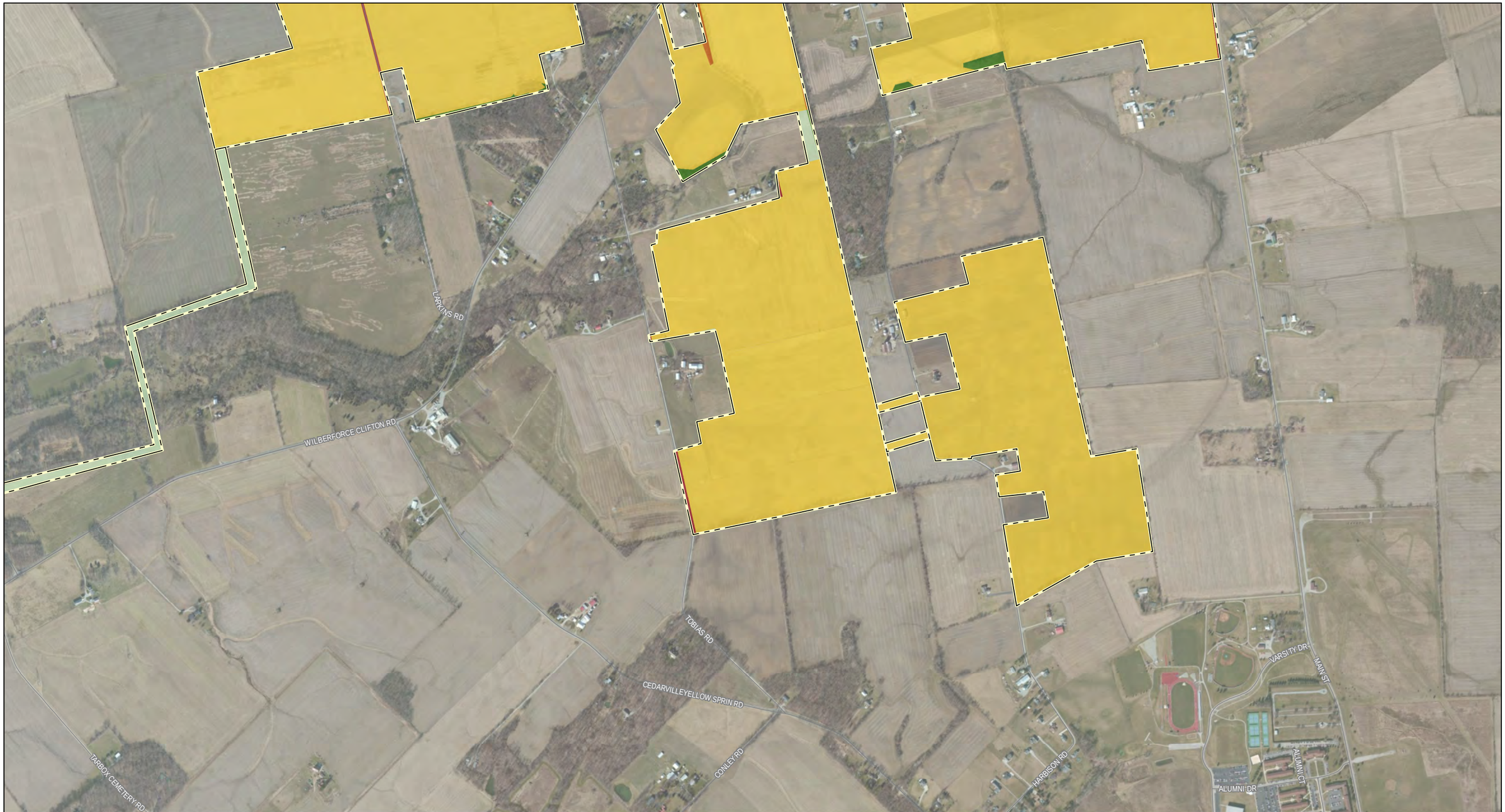


Figure 08-10
Ecological Communities

Sheet 2 of 3

Kingwood Solar
Greene County, Ohio



LEGEND

- ROAD
- LAND COVER TYPE
  - AGRICULTURAL
  - DEVELOPED
  - FORESTED
  - PASTURE
  - SCRUB SHRUB
  - PROJECT AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. LAND COVER TYPE DATA SOURCE: FIELD OBSERVATIONS BY HALEY & ALDRICH.
3. ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
4. AERIAL IMAGERY SOURCE: ESRI

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SCALE IN FEET

HALEY ALDRICH

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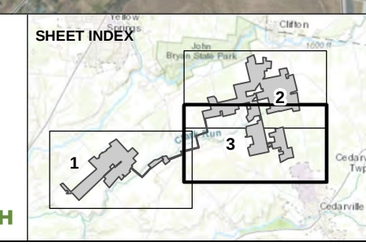
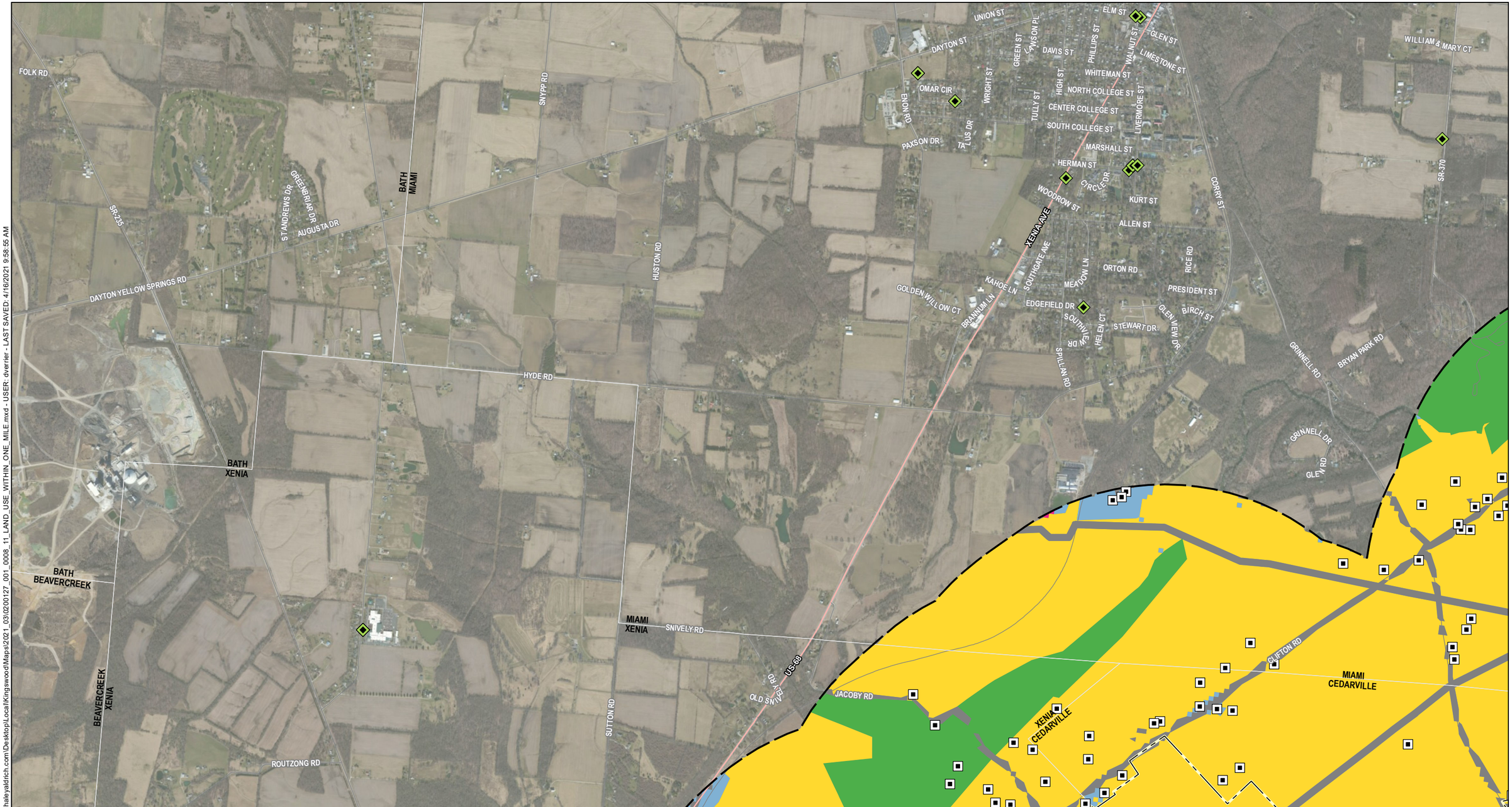


Figure 08-10
Ecological Communities

Sheet 3 of 3

Kingwood Solar
Greene County, Ohio



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LEGEND

- SCHOOL
- HOUSE
- ROAD
- HIGHWAY

OPSB LAND COVER CATEGORY

- AGRICULTURAL
- COMMERCIAL
- INDUSTRIAL
- INFRASTRUCTURE
- INSTITUTIONAL
- RECREATIONAL
- RESIDENTIAL
- VACANT
- PROJECT AREA
- 1-MILE BUFFER OF PROJECT AREA
- CITY OR TOWN BOUNDARY
- COUNTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. LAND COVER DATA SOURCES: ESRI, GREEN COUNTY, OHIO, UNITED STATES GEOLOGICAL SURVEY (USGS) PROTECTED AREAS DATABASE (PAD), USGS NATIONAL LAND COVER DATABASE (NLCD), 2016, AND OBSERVATIONS MADE BASED UPON AERIAL IMAGERY
3. SCHOOLS DATA SOURCE: OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM (OGRIP)
4. CITY AND TOWN BOUNDARIES DATA SOURCE: OHIO ENVIRONMENTAL MANAGEMENT AGENCY (OEMA)
5. COUNTY BOUNDARY AND ROADS DATA SOURCE: OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
6. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

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SCALE IN FEET

SHEET INDEX

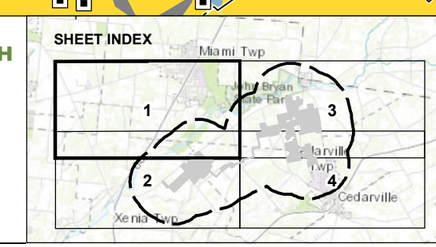
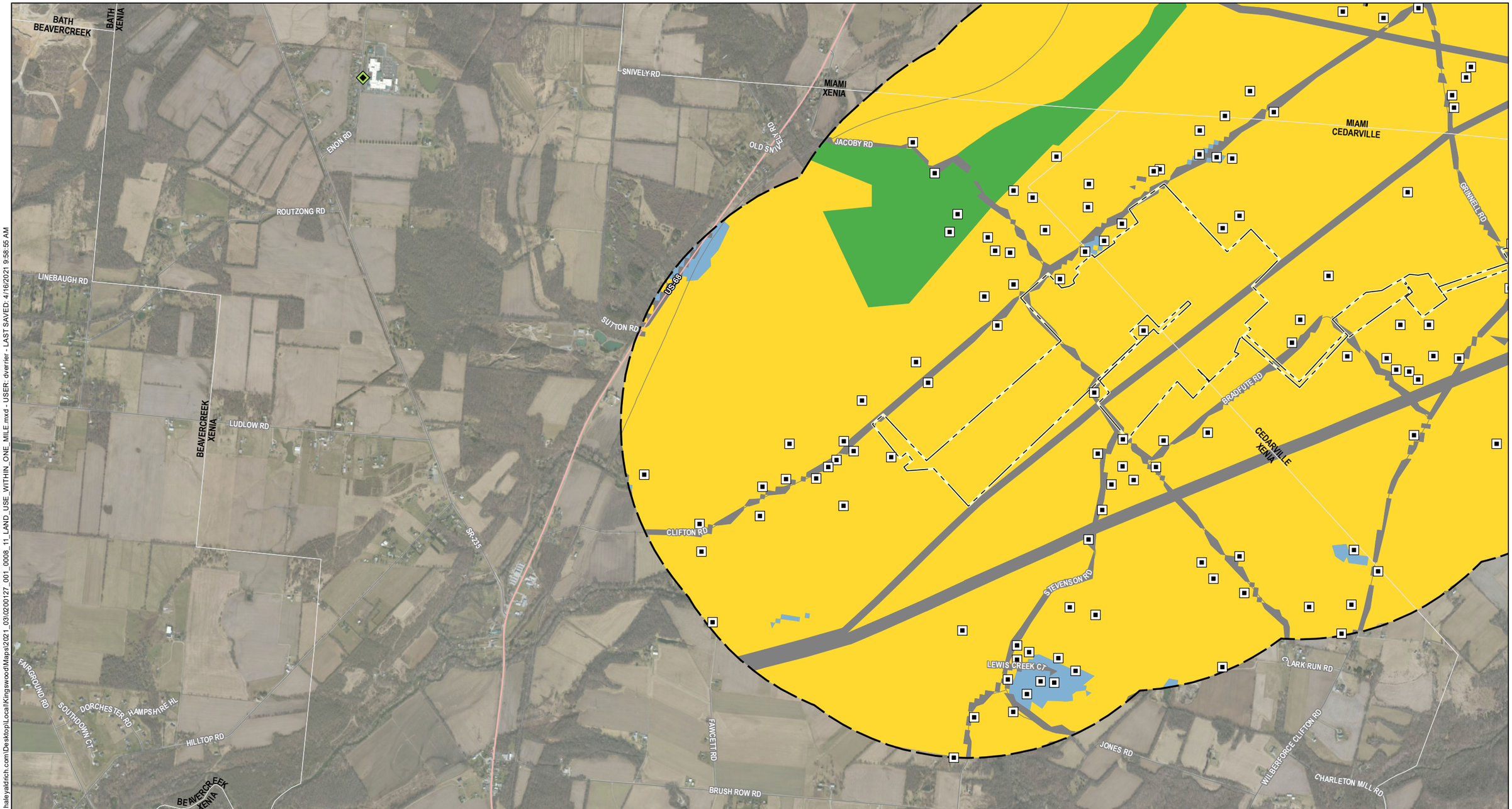


Figure 08-11
Land Use within One Mile
Sheet 1 of 4

Kingwood Solar
Greene County, Ohio



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LEGEND

- SCHOOL
- HOUSE
- ROAD
- HIGHWAY

OPSB LAND COVER CATEGORY

- AGRICULTURAL
- COMMERCIAL
- INDUSTRIAL
- INFRASTRUCTURE
- INSTITUTIONAL
- RECREATIONAL
- RESIDENTIAL
- VACANT
- PROJECT AREA
- 1-MILE BUFFER OF PROJECT AREA
- CITY OR TOWN BOUNDARY
- COUNTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. LAND COVER DATA SOURCES: ESRI, GREEN COUNTY, OHIO, UNITED STATES GEOLOGICAL SURVEY (USGS) PROTECTED AREAS DATABASE (PAD), USGS NATIONAL LAND COVER DATABASE (NLCD), 2016, AND OBSERVATIONS MADE BASED UPON AERIAL IMAGERY
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6. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

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SCALE IN FEET

SHEET INDEX

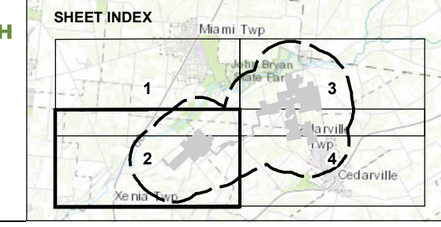
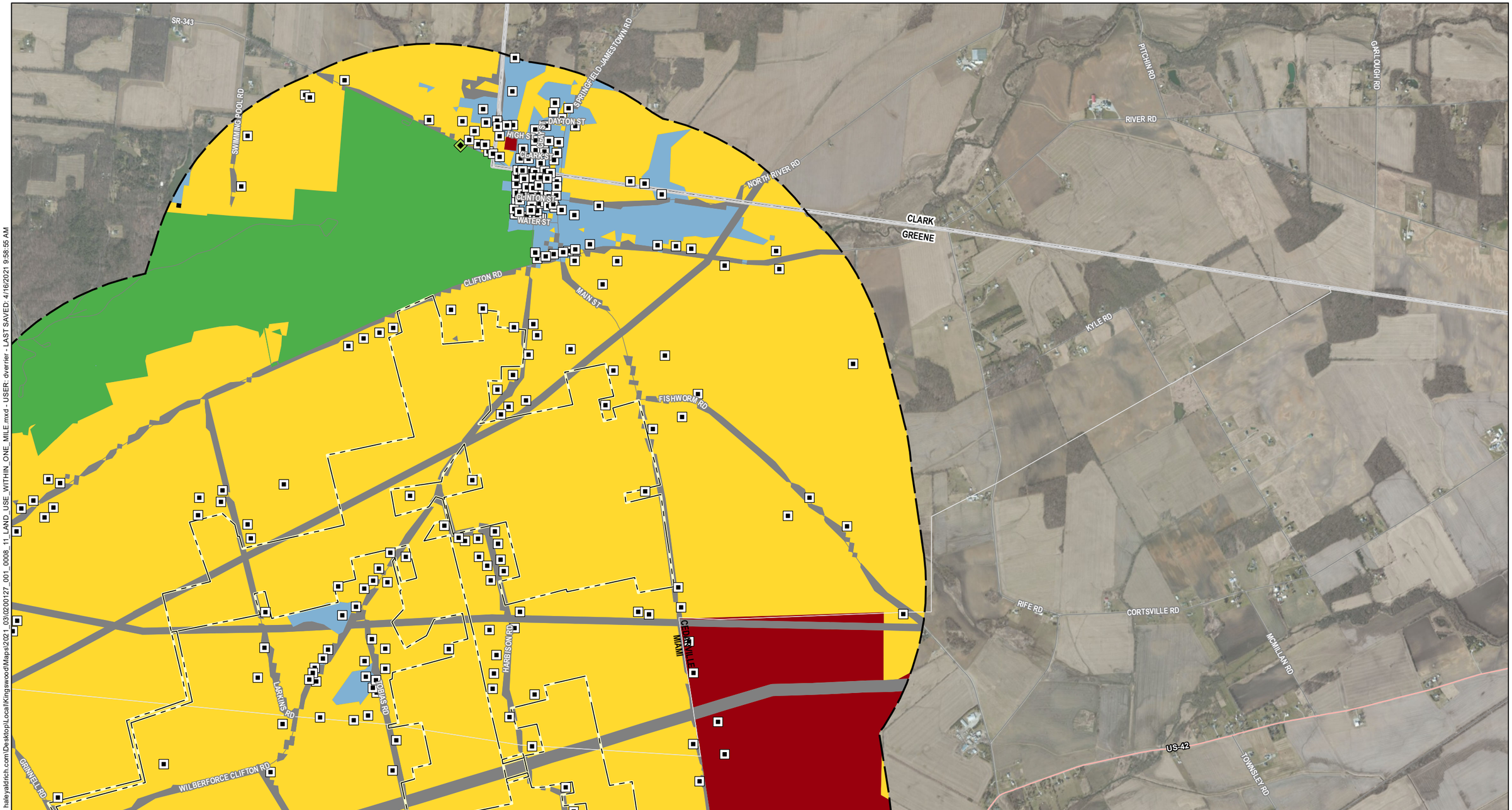


Figure 08-11
Land Use within One Mile

Sheet 2 of 4

Kingwood Solar
Greene County, Ohio



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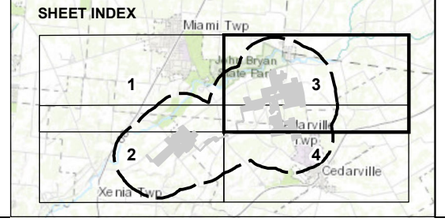

Figure 08-11
Land Use within One Mile
Sheet 3 of 4

Kingwood Solar
Greene County, Ohio

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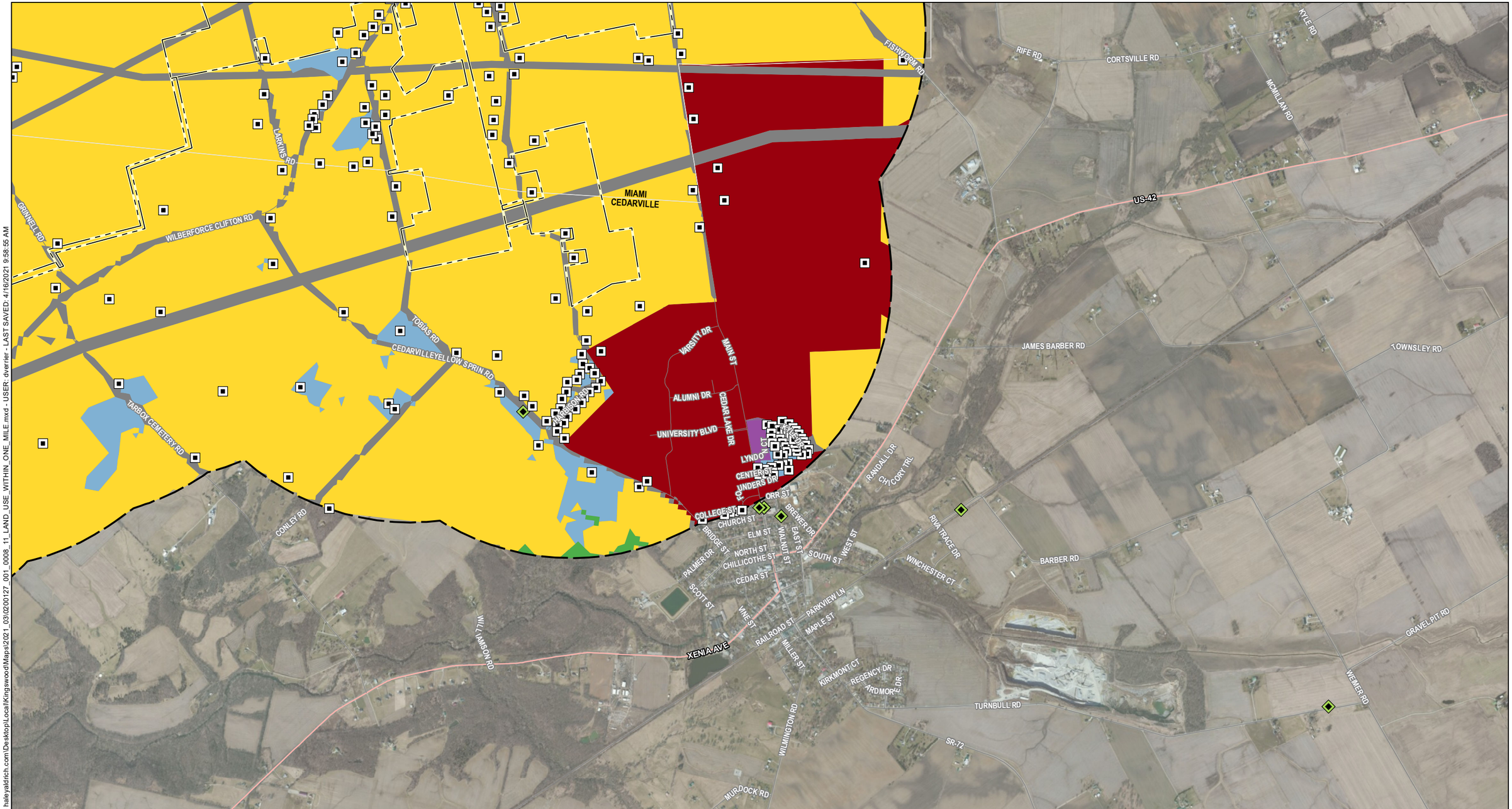

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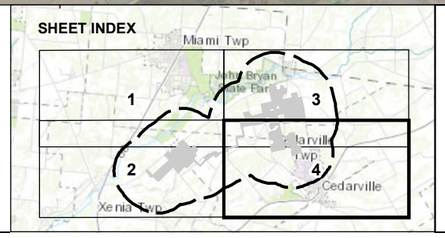

Figure 08-11
Land Use within One Mile
Sheet 4 of 4

Kingwood Solar
Greene County, Ohio

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in

Case No(s). 21-0117-EL-BGN

Summary: Application Figures 08-1 through 08-11 electronically filed by Mr. Michael J. Settineri on behalf of Kingwood Solar I LLC