

**Hardin Solar Energy II LLC
Case No. 18-1360-EL-BGN**

Application Part 2 of 6

Part 2 includes:

- **Figure 03-1 Project Area Map**
- **Figure 03-2 Project Area Aerial Map**
- **Figure 04-1 Project Study Area Map**
- **Figure 04-2 Constraint Map**
- **Figure 08-1 Geological Features Map**
- **Figure 08-2 TRC Project Area Map-NWI Wetlands-NHD Streams-NLCD Land Use**
- **Figure 08-3 TRC Project Area Map-Wildlife Areas-Nature Preserves-Conservation Areas-Soil Survey**
- **Figure 08-4 TRC Project Area Map-Delineated Resources**
- **Figure 08-5 Land Use Map**

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Date Filed: October 12, 2018

Attorneys for Hardin Solar Energy II LLC

Figure 03-1

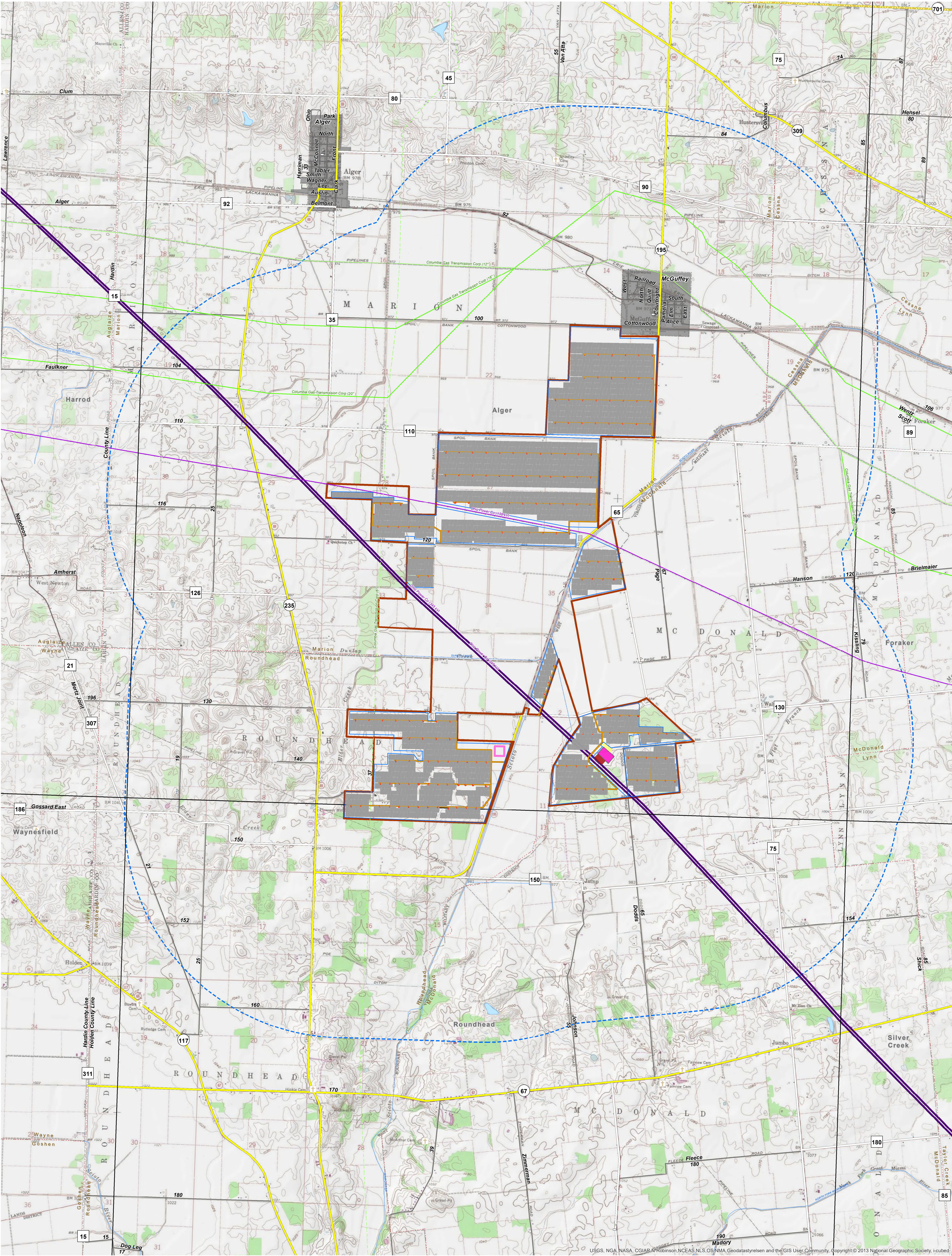
Project Area Map

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC

Figure 03-1

Date Sheet: Wednesday, October 3, 2018 12:02:28 PM
Project: Hardin Solar II Energy Center
Coordinate System: NAD 1983 UTM Zone 17N
Map: C:\MSD\GIS\Map\MapServer\03-1\HardinSolarII_03-1\project_area_ArctiD.mxd



Legend

School

Church

Cemetery

River

Water Body

Preliminary Project Fenceline

Preliminary Access Roads

Preliminary Racking

Preliminary Inverter

Preliminary O&M Building

Project Substation Area

Preliminary Storage Facility

Interconnection Substation

Natural Gas Pipeline

1" - 12"

13" - 24"

Estimated Natural Gas Pipeline

1" - 12"

Transmission Line

100 - 161 kV

345 - 500 kV

Proposed Project Boundary

2mi Buffer

Township

1,60001,600

Feet

1:25,000

Figure 03-2

Project Area Aerial Map

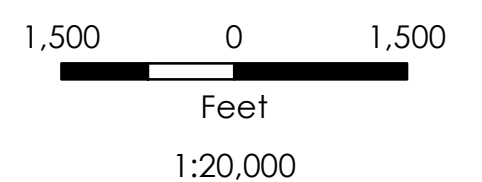
Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC



	Preliminary Project Fenceline		Project Substation Area		Proposed Project Boundary
	Preliminary Access Roads		Preliminary Storage Facility		Township
	Preliminary Racking		Interconnection Substation		Parcel
	Preliminary Inverter		Underground Collection Cable Route		Municipal Boundary
	Preliminary O&M Building		Permitted Phase 1		

 US/State Route
 County Road
 Local Road
 Dirt/Unpaved Road



Hardin Solar II Energy Center | Hardin County, Ohio

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Figure 04-1

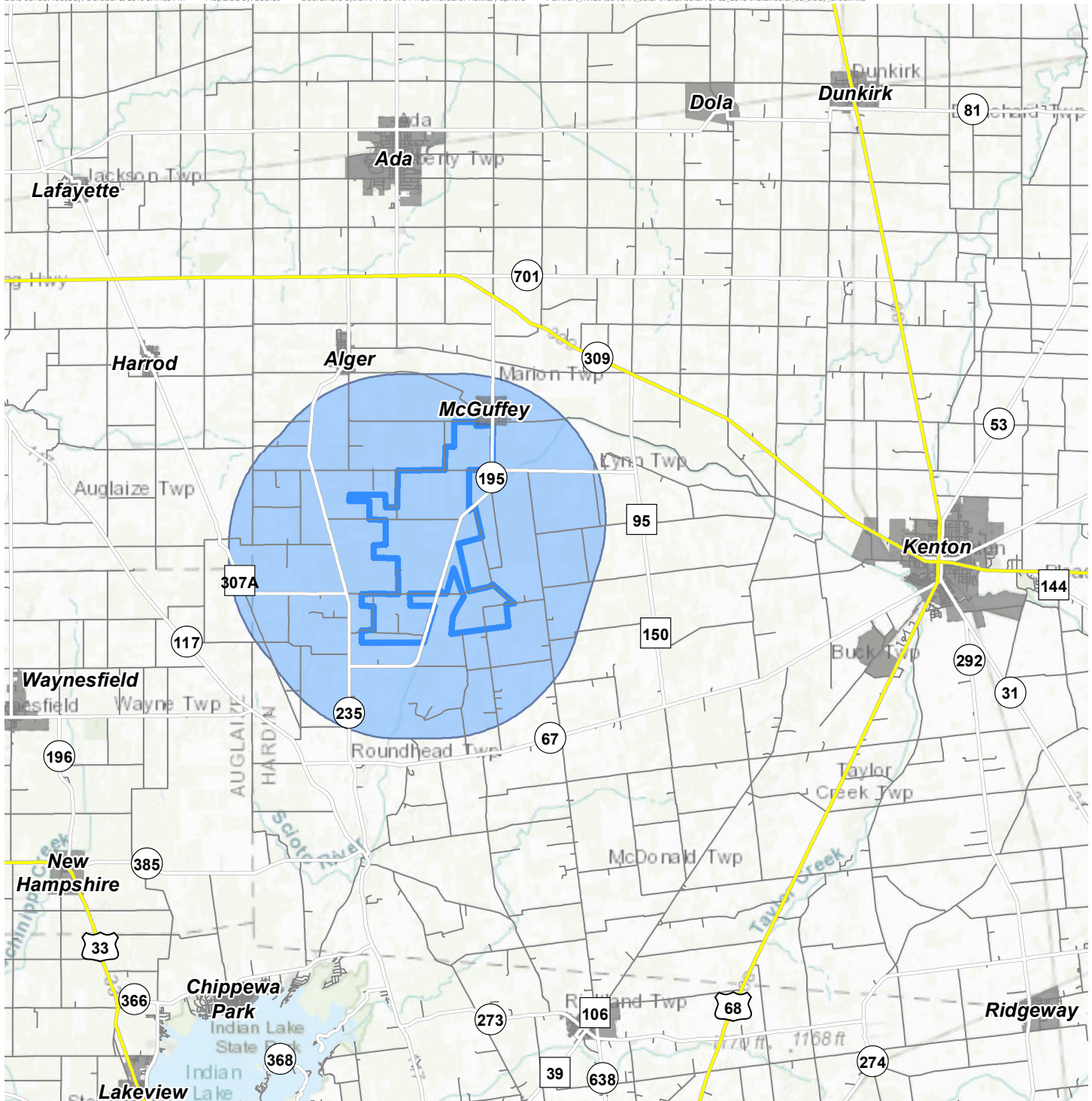
Project Study Area Map

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC

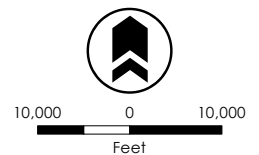
Figure 04-1

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Legend

- | | |
|---|--|
|  Proposed Project Area | Road Classification |
|  Study Area |  Primary Road |
| |  Secondary Road |
| |  Local Road |



Map of Study Area

Hardin Solar II Energy Center | Hardin County, Ohio

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Figure 04-2

Constraint Map

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
vvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC



- Residence
- ◆ Project Substation Area
- ◆ Preliminary Storage Facility
- ◆ Interconnection Substation

- Preliminary Access Roads
- Preliminary Project Fence
- Preliminary Racking
- Preliminary Inverter
- Preliminary O&M Building

100 - 161 kV US/State Route
 345 - 500 kV County Road
 Local Road
 Dirt/Unpaved Road

 1 Mile Buffer
 Township
 Municipal Boundary

Setbacks

- Residence Setback (40ft)
- Road Setback (20ft)
- Transmission Line Setback (60ft)



Hardin Solar II Energy Center | Hardin County, Ohio

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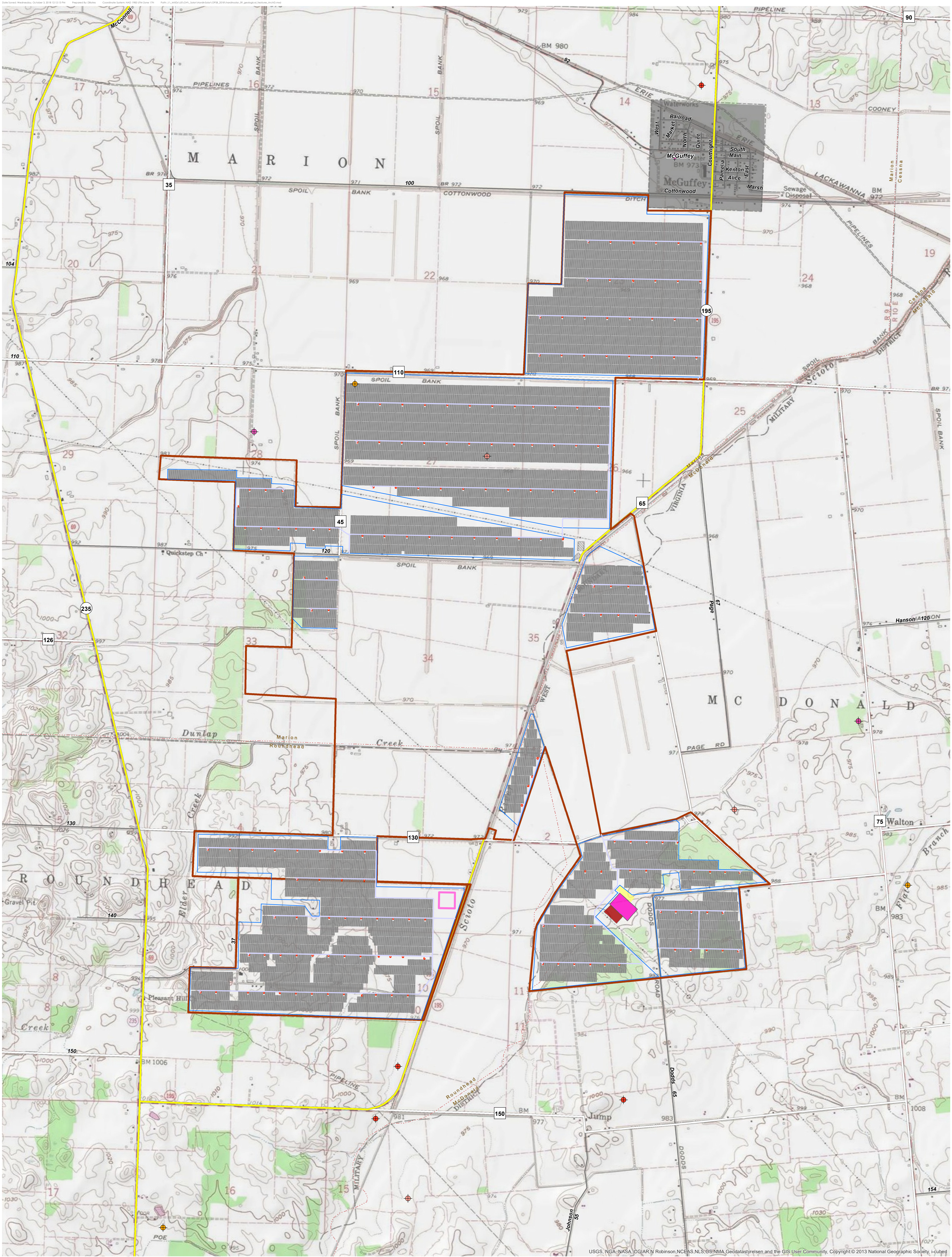
Figure 08-1

Geological Features Map

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC

Figure 08-1



Legend

Well Location

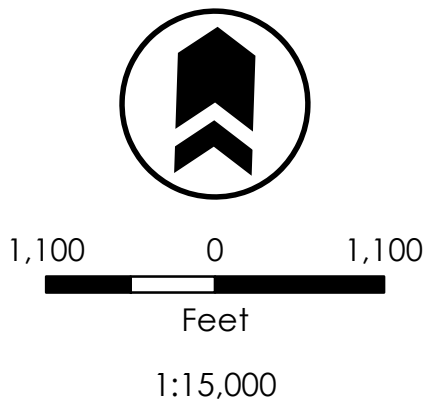
- Dry hole
- Dry hole with oil and gas show
- Expired permit
- Gas
- Gas show
- Oil
- Preliminary Access Roads
- Preliminary Project Fenceline
- Preliminary Racking
- Preliminary Inverter
- Preliminary O&M Building

- Project Substation Area
- Preliminary Storage Facility
- Interconnection Substation

Road Classification

- US/State Route
- County Road
- Local Road
- Dirt/Unpaved Road

- Proposed Project Boundary
- Township
- Municipal Boundary



Geological Features Map

Hardin Solar II Energy Center | Hardin County, Ohio

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October 03, 2018

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Figure 08-2

TRC Project Area Map-NWI Wetlands-NHD Streams-NLCD Land Use

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

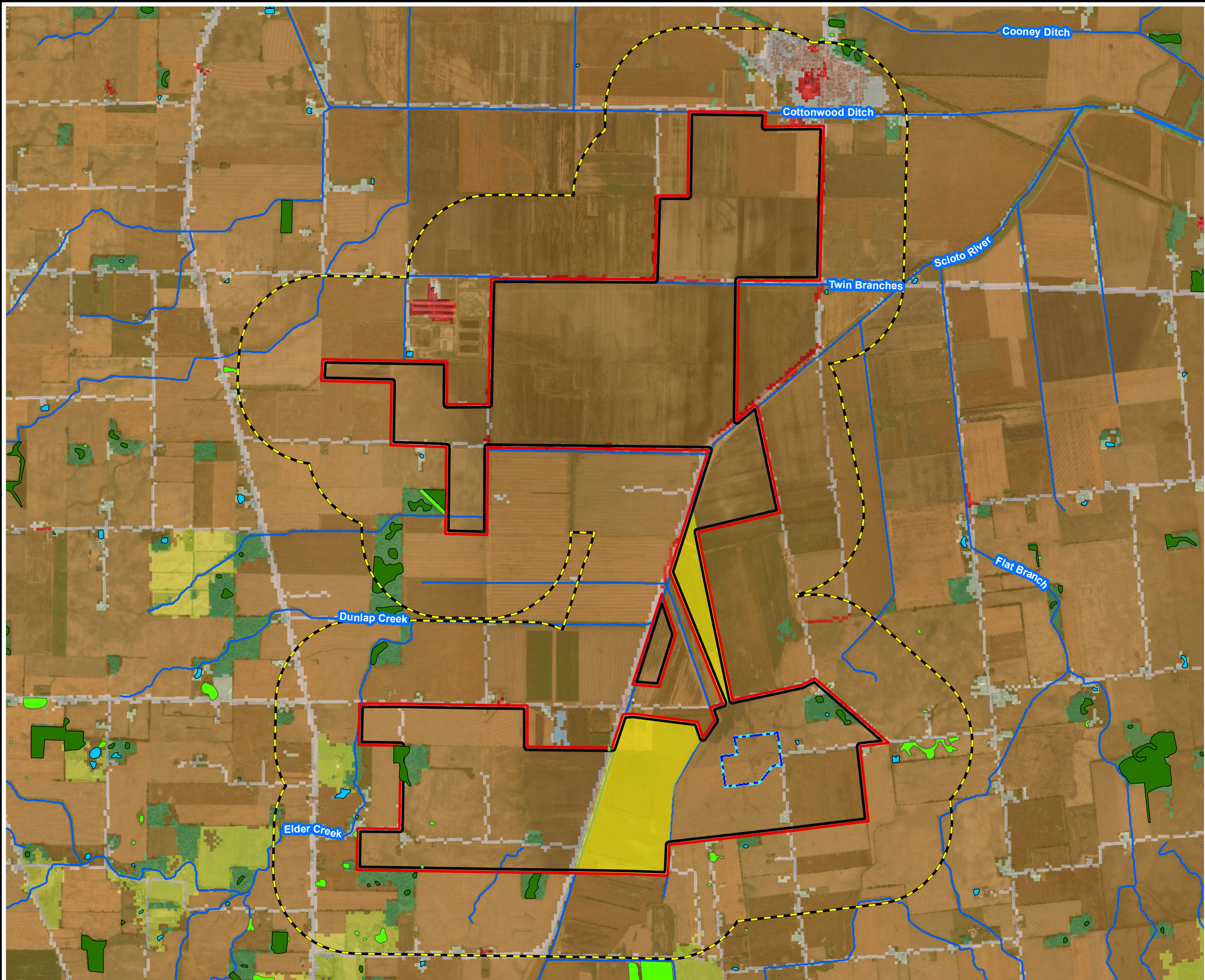
Attorneys for Hardin Solar Energy II LLC

Figure 08-2

TRC - GIS

Coordinate System: NAD 1983 2011 StatePlane Ohio South FIPS 3402 Ft US (Foot US)
Map Rotation: 0

Plot Date: 10/4/2018, 09:10:59 AM by: DKENWORTHY -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\INVENTORY\302899-HARDIN_WIND_SOLAR_IL\HSII_Fig8-2_NWI_NLCD_11x17.mxd



Legend

- Study Area (September 2018)
- Project Area (September 2018)
- Proposed Underground Collection Corridor
- Half Mile Buffer
- Point of Interconnection Facility Studied 2017
- National Hydrography Dataset (NHD) Stream

National Wetlands Inventory (NWI) Wetlands

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Ground Truthed Land Use

- Open Water
- Developed, Open Space
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Herbaceous
- Hay/Pasture
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

0 1,500 3,000
Feet

1" = 3,000'
1:36,000

PROJECT:		HARDIN SOLAR ENERGY II, LLC HARDIN SOLAR II ENERGY CENTER CONFIDENTIAL BUSINESS INFORMATION	
TITLE:		ECOLOGICAL RESOURCES NWI WETLANDS, NHD STREAMS AND NLCD LAND USE	
DRAWN BY:	D. KENWORTHY	PROJ NO.:	302899.0000.0000
CHECKED BY:	M. MOLNAR	FIGURE 08-2	
APPROVED BY:	J. PITTS		
DATE:	OCTOBER 2018		
TRC		921 Eastwind Drive, Suite 122 Westerville, OH 43081 Phone: 614.423.6334 www.trcsolutions.com	
FILE NO.:		HSII_Fig8-2_NWI_NLCD_11x17.mxd	

Figure 08-3

TRC Project Area Map-Wildlife Areas-Nature Preserves-Conservation Areas-Soil Survey

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC

Figure 08-3

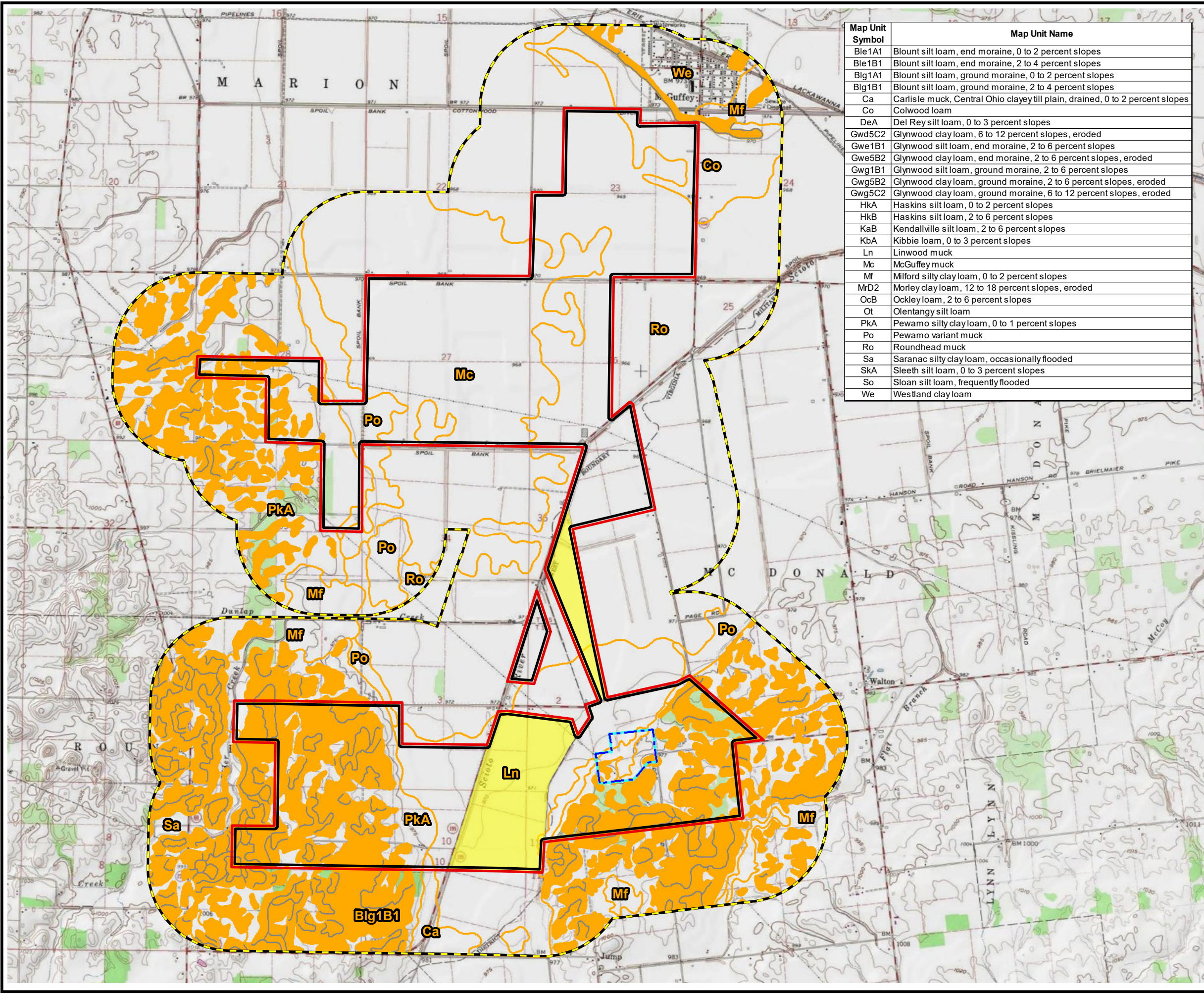
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Map Rotation: 0

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Map Unit Symbol	Map Unit Name
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes
Blg1A1	Blount silt loam, ground moraine, 0 to 2 percent slopes
Blg1B1	Blount silt loam, ground moraine, 2 to 4 percent slopes
Ca	Carlisle muck, Central Ohio clayey till plain, drained, 0 to 2 percent slopes
Co	Colwood loam
DeA	Del Rey silt loam, 0 to 3 percent slopes
Gwd5C2	Glynwood clay loam, 6 to 12 percent slopes, eroded
Gwe1B1	Glynwood silt loam, end moraine, 2 to 6 percent slopes
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded
Gwg1B1	Glynwood silt loam, ground moraine, 2 to 6 percent slopes
Gwg5B2	Glynwood clay loam, ground moraine, 2 to 6 percent slopes, eroded
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded
HkA	Haskins silt loam, 0 to 2 percent slopes
HkB	Haskins silt loam, 2 to 6 percent slopes
KaB	Kendallville silt loam, 2 to 6 percent slopes
KbA	Kibbie loam, 0 to 3 percent slopes
Ln	Linwood muck
Mc	McGuffey muck
Mf	Milford silty clay loam, 0 to 2 percent slopes
MrD2	Morley clay loam, 12 to 18 percent slopes, eroded
OcB	Ockley loam, 2 to 6 percent slopes
Ot	Olentangy silt loam
PkA	Pewamo silty clay loam, 0 to 1 percent slopes
Po	Pewamo variant muck
Ro	Roundhead muck
Sa	Saranac silty clay loam, occasionally flooded
SkA	Sleeth silt loam, 0 to 3 percent slopes
So	Sloan silt loam, frequently flooded
We	Westland clay loam

Legend

Study Area (September 2018)

Project Area (September 2018)

Proposed Underground Collection Corridor

Half Mile Buffer

Point of Interconnection Facility Studied 2017

Non-Hydric Soils

Hydric Soils

Note:
No Wildlife Areas, Nature Preserves, or Other Conservation Areas are located near the Project.

015003000

Feet

1" = 3,000'

1:36,000

N

PROJECT:

HARDIN SOLAR ENERGY II, LLC
HARDIN SOLAR II ENERGY CENTER
CONFIDENTIAL BUSINESS INFORMATION

TITLE:

ECOLOGICAL RESOURCES
WILDLIFE AREAS, NATURE PRESERVES, OTHER
CONSERVATION AREAS AND SOIL SURVEY

DRAWN BY:

D. KENWORTHY

PROJ NO.:

302899.0000.0000

CHECKED BY:

M. MOLNAR

APPROVED BY:

J. PITTS

DATE:

OCTOBER 2018

FIGURE 08-3

TRC

921 Eastwind Drive, Suite 122
Westerville, OH 43081
Phone: 614.423.6334
www.trcsolutions.com

FILE NO.: HSLI_Fig8-3_Wild_Nature_Conserved_11x17.mxd

Figure 08-4

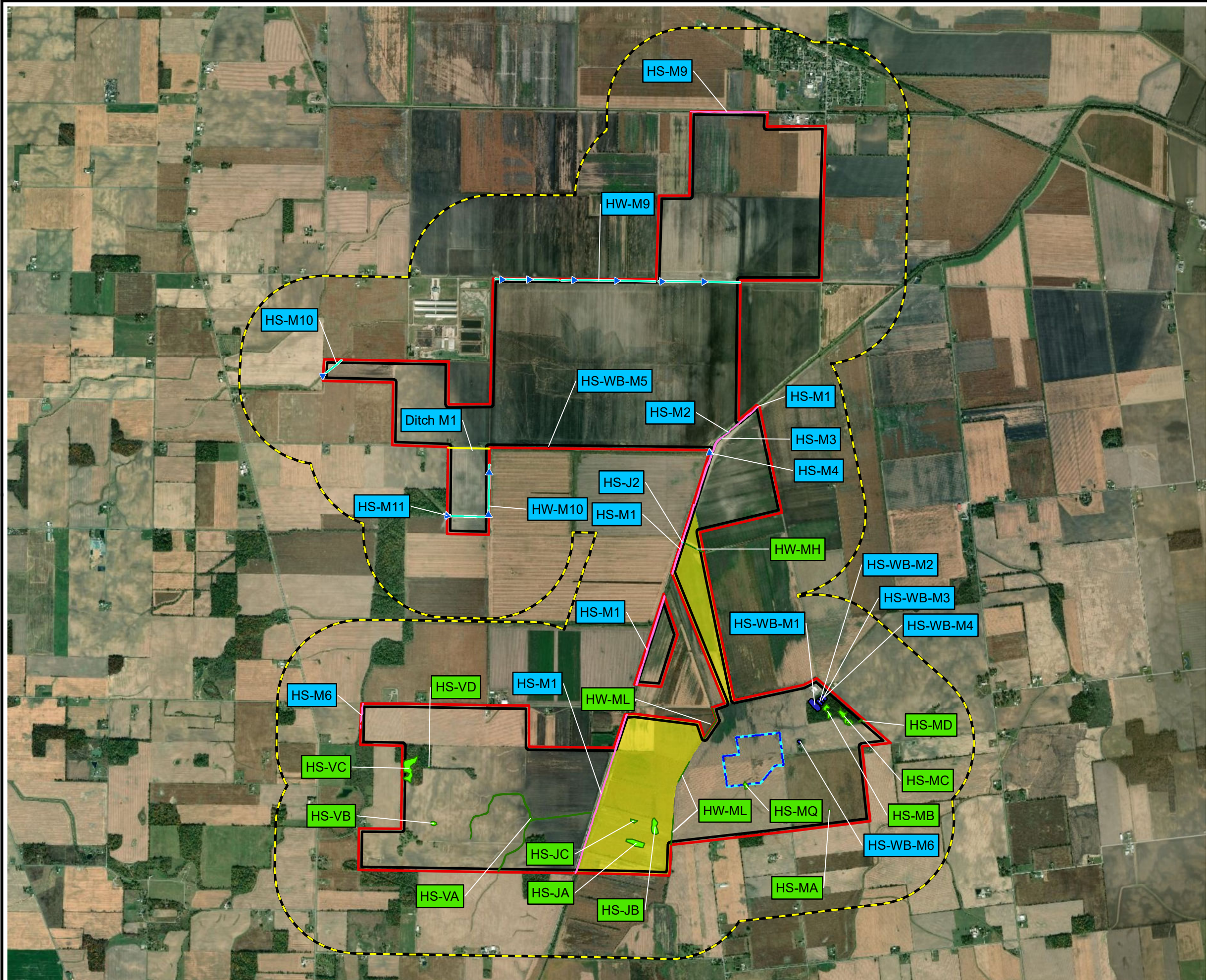
TRC Project Area Map-Delineated Resources

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC

Figure 08-4

Plot Date: 10/10/2018 06:57:10 AM by DKENWORTHY -- LAYOUT: ANSI B(11"x17")
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Coordinate System: NAD 1983 2011 StatePlane Ohio South FIPS 3402 Ft US (Foot US)
Map Rotation: 0



Legend

- Study Area (September 2018)
- Project Area (September 2018)
- Proposed Underground Collection Corridor
- Half Mile Buffer
- Point of Interconnection Facility Studied 2017

Delineated Streams

- Ditch
- Ephemeral
- Intermittent
- Perennial

Delineated Area Type

- Stream Polygon
- Water/Pond Boundary
- Wetland Boundary

0 1,500 3,000 Feet
1" = 3,000'
1:36,000

PROJECT: **HARDIN SOLAR ENERGY II, LLC
HARDIN SOLAR II ENERGY CENTER
CONFIDENTIAL BUSINESS INFORMATION**

TITLE: **DELINEATED RESOURCES**

DRAWN BY: D. KENWORTHY	PROJ NO.: 302899.0000.0000
CHECKED BY: M. MOLNAR	FIGURE 08-4
APPROVED BY: J. PITTS	
DATE: OCTOBER 2018	

TRC

921 Eastwind Drive, Suite 122
Westerville, OH 43081
Phone: 614.423.6334
www.trcsolutions.com

FILE NO.: HSIL_Fig8-4_Delin_Resources_11x17.mxd

Figure 08-5

Land Use Map

Christine M.T. Pirik (0029759)
(Counsel of Record)
William V. Vorys (0093479)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Hardin Solar Energy II LLC

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/12/2018 10:32:43 AM

in

Case No(s). 18-1360-EL-BGN

Summary: Application Part 2 of 6, Figures 03-1 through 08-5 electronically filed by Christine M.T. Pirik on behalf of Hardin Solar Energy II LLC