

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2
Tab 11

**Kentucky State Board on Electric Generation and Transmission Siting
Green River Solar, LLC – Case No. 2020-00387
Application – Exhibit 11
Volume 2, Tab 11**

Filing Requirement

A site assessment report as specified in KRS 278.708. (KRS 278.706(2)(1))

- (a) A description of the proposed facility that shall include a proposed site development plan that describes:
 1. Surrounding land uses for residential, commercial, agricultural, and recreational purposes;
 2. The legal boundaries of the proposed site;
 3. Proposed access control to the site;
 4. The location of facility buildings, transmission lines, and other structures;
 5. Location and use of access ways, internal roads, and railways;
 6. Existing or proposed utilities to service the facility;
 7. Compliance with applicable setback requirements as provided under KRS 278.704(2), (3), (4), or (5); and
 8. Evaluation of the noise levels expected to be produced by the facility;*
- (b) An evaluation of the compatibility of the facility with scenic surroundings;*
- (c) The potential changes in property values and land use resulting from the siting, construction, and operation of the proposed facility for property owners adjacent to the facility;*
- (d) Evaluation of anticipated peak and average noise levels associated with the facility's construction and operation at the property boundary; and*
- (e) The impact of the facility's operation on road and rail traffic to and within the facility, including anticipated levels of fugitive dust created by the traffic and any anticipated degradation of roads and lands in the vicinity of the facility. (KRS 278.708(3))*

The site assessment report shall also suggest any mitigating measures to be implemented by the applicant to minimize or avoid adverse effects identified in the site assessment report. (KRS 278.708(4))

Respondent: Brian Bartels

Pursuant to KRS 278.708(3) and (4), the attached Site Assessment Report was prepared by Environmental Consulting and Technology, Inc., under the direction and supervision of Brian Bartels, on behalf of Green River. The Site Assessment Report summarizes the Project and includes each of the elements required by the statute.

With regard to a description of the proposed facility, Section 1.0 of the Site Assessment included the relevant information. Information concerning the proposed site development plan is present throughout the Site Assessment Report, but particular attention is drawn to Exhibit 4, which contains detailed maps about the proposed Project area.

In accordance with KRS 278.708(3)(a)1., information concerning the surrounding land uses for residential, commercial, agricultural, and recreational purpose is found on page one of the Site Assessment Report. As set forth therein, “[t]he Project area has historically been used for agricultural and forestry purposes and the Project parcels are predominately bordered by agricultural farmland and scattered rural homesteads.”

In accordance with KRS 278.708(3)(a)2., the legal boundaries of the proposed site are included in Exhibit 2 of the Site Assessment Report.

In accordance with KRS 278.708(3)(a)3., the Site Assessment Report includes a summary of the proposed access controls that will be applicable to the Project site. On page one of the Site Assessment Report, several strategies for controlling access are identified, including: (1) appropriate security fencing that is installed in accordance with the National Electric Safety Code; (2) appropriate signage to warn potential trespassers in locations visible to the public, local residences and business owners. Page two of the Site Assessment Report further confirms that the project will be appropriated gated. On page eleven, the Site Assessment Report notes that access control will be provided by guidelines of the North American Electric Reliability Corporation (“NERC”), National Fire Protection Association (“NFPA”) and the Occupational Safety and Health Administration (“OSHA”).

In accordance with KRS 278.708(3)(a)4. and 5., Exhibit 3 to the Site Assessment Report, the Project’s preliminary layout, includes the location of all facilities and other structures

associated with the Project. Exhibit 3 and Exhibit 6, the Traffic and Dust Study, also include a description of the location and use of access ways, internal roads and one railway that passes through the proposed Project area. This information is further discussed in Section 1.0 of the Site Assessment Report.

In accordance with KRS 278.708(3)(a)6., page two of the Site Assessment Report indicates that “it is not anticipated that the additional external utility services or support will be required during typical plant operations.”

In accordance with KRS 278.708(3)(a)7., the Project’s compliance with applicable setback requirements under KRS 278.704(2) – (5) are discussed on pages two through four of the Site Assessment Report.

In accordance with KRS 278.708(3)(a)8, an evaluation of the noise levels expected to be produced by the Project both during its construction and subsequent operations are included in Section 4.0 of, and in Exhibit 4 to, the Site Assessment Report. The Site Assessment Report concludes that the calculated construction noise pressure levels – at their maximum – are similar to, or lower than, typical farming operations. When the effects of foliage, wind direction, dispersal of operating equipment and other factors are taken into account, the sound levels are expected to be even less than the typical noise associated with a tractor.

In accordance with KRS 278.708(3)(b), an evaluation of the compatibility of the Project with its scenic surroundings is included in Section 2.0 of the Site Assessment Report. Additional support for the evaluation is found in Exhibit 5, Green River’s preliminary visual representation of proposed vegetative screening.

In accordance with KRS 278.708(c), an analysis of the potential changes in property values and land use resulting from the siting, construction and operation of the Project for adjacent

property owners is the subject of an extensive analysis set forth in Exhibit 1 to the Site Assessment Report. This analysis is described and summarized in Section 3.0 of the Site Assessment Report.

In accordance with KRS 278.708(d), an evaluation of anticipated peak and average noise levels associated with the Project's construction and operation at the property boundary is included in Section 4.0 of the Site Assessment Report. This analysis is further supported by Exhibit 4 to the Site Assessment Report, the Noise Impact Assessment.

In accordance with KRS 278.708(e), the impact of the Project's operation on road and rail traffic to and within the facility, including anticipated levels of fugitive dust created by the traffic and any anticipated degradation of roads and lands in the vicinity of the facility is included in Section 5.0 of the Site Assessment Report, with additional detailed information found in Exhibit 6 to the Site Assessment Report.

Finally, in accordance with KRS 278.708(4), the Site Assessment report suggests several mitigating measures to be implemented by Green River to minimize or avoid adverse effects identified in the Site Assessment Report. This information can be found throughout the various reports, but is also summarized in Section 6.0 of the Site Assessment Report. In addition, a visual representation of the proposed vegetative buffer for the Project is included as Exhibit 5 to the Site Assessment Report.

The following documents are attached hereto and incorporated herein:

Attachment A: Site Assessment Report (22 Pages)

Exhibit 1: Property Value Impact Studies (170 Pages)

Exhibit 2: Legal Property Descriptions of Site (52 Pages)

Exhibit 3: Preliminary Site Layout (24 Pages)

Exhibit 4: Noise Impact Assessment (48 Pages)

Exhibit 5: Visual Representation of Proposed Vegetative Screening (1 Page)

Exhibit 6: Traffic and Dust Study (12 Pages)

Exhibit 7: Phase I Environmental Site Assessment (267 Pages)

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Attachment A

Site Assessment Report
(22 Pages)



Site Assessment Report

June 2021

ECT No. 200594-0900

Green River Solar, LLC
Juno Beach, FL


ECT

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Document Review

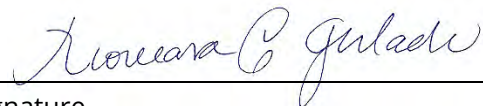
The dual signatory process is an integral part of Environmental Consulting & Technology, Inc.'s (ECT's) Document Review Policy No. 9.03. All ECT documents undergo technical/peer review prior to dispatching these documents to any outside entity.

This document has been authored and reviewed by the following employees:

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Exhibits

Exhibit 1	Property Value Impact Studies
Exhibit 2	Legal Property Descriptions of Site
Exhibit 3	Preliminary Site Layout
Exhibit 4	Noise Impact Assessment
Exhibit 5	Preliminary Visual Representation of Proposed Vegetative Screening
Exhibit 6	Traffic and Dusty Study
Exhibit 7	Phase I Environmental Site Assessment

List of Acronyms and Abbreviations

BMP	Best management practices
CSX	CSX transportation
CWA	Clean Water Act
dBA	A-weighted decibels
E&S	Erosion and sediment control
ESA	Phase I Environmental Site Assessment
kV	Kilovolt
MWac	Megawatt alternating current
PV	Photovoltaic
SCADA	Solar meteorological station, supervisory control, data acquisition
SPL	Sound pressure level
USACE	United States' Army Corps of Engineers

1.0 Description of Proposed Site

REQUIREMENT: per KRS 278.708 (3)(a); *A description of the proposed facility that shall include a proposed site development plan that describes:*

1. *Surrounding land uses for residential, commercial, agricultural, and recreational purposes;*
2. *The legal boundaries of the proposed site;*
3. *Proposed access control to the site;*
4. *The location of facility buildings, transmission lines, and other structures;*
5. *Location and use of access ways, internal roads, and railways;*
6. *Existing or proposed utilities to service the facility;*
7. *Compliance with applicable setback requirements as provided under KRS 278.704(2), (3), (4), or (5); and*
8. *Evaluation of the noise levels expected to be produced by the facility.*

COMPLIANCE:

The proposed Green River Solar facility (Project) will be capable of generating 200 megawatts alternating current (MWac). The Project is to be located on a site encompassing 1,750 acres located near the town of Irvington, Kentucky. The Project will involve approximately 1,100 acres in Breckinridge County and 650 acres in Meade County. The power generated by the Project will provide clean, renewable electricity, and will interconnect with the transmission system owned by the Big Rivers Electric Corporation at the 161 kilovolt (kV) Meade Substation, located at Guston Road and Highway 79 in Meade County. The Project area has historically been used for agricultural and forestry purposes and the Project parcels are predominately bordered by agricultural farmland and scattered rural homesteads.

Photovoltaic (PV) solar panels will be mounted on racking, which will fix the solar panels to the ground. Additional infrastructure at the Project will consist of central electric inverters and transformers, underground electrical collection systems, electrical collector substation, point of interconnection, switchyard, interconnection facilities, a solar meteorological station, supervisory control, data acquisition (SCADA) hardware, control house, and associated facilities, private gravel access roads with gated ingress/egress points and security fencing.

An approximately seven-foot security fence, including 1-ft of barbed wire will be constructed around the Project's facilities in compliance with the National Electrical Safety Code. Barbed wire will be excluded from portions of the security fence in or along any boundary adjoining residential properties as described in Section 4.3.7.3.d of the Meade County Zoning Ordinance.

Access control strategy will also include appropriate signage to warn potential trespassers. The Project will ensure that all site entrances and boundaries have adequate signage, particularly in locations visible to the public, local residents, and business owners.

Where there are potential visual impacts created by the Project, such as areas near residences, a naturalized vegetative screening plan will be implemented to minimize these impacts. This will also

reduce the effects of any noise generated by equipment (primarily inverters) associated with the Project.

The proposed Project will be in compliance with the Meade County solar ordinance’s setback requirements, which include 50-foot setbacks from perimeter property lines of the Project area and at least 250-foot setbacks from any residential structure, nursing home, church, or school; interconnection facilities may, however, be located within the setback lines as consistent with Section 4.3.7.3.c of the Meade County Zoning Ordinance. Meade County solar setbacks are not required for interior property lines if the project spans multiple contiguous properties. The portion of the Project located within Breckinridge County is not subject to local setback requirements, and therefore, Green River has requested a deviation pursuant to KRS 278.704, from the statutory setback requirements. To provide consistency across the Project, Green River is requesting to implement the same setbacks across both Counties to the extent practicable.

Compliance Summary:

1. A detailed description of the surrounding land uses is identified in the Property Value Impact Study, conducted by CohnReznick (**Exhibit 1**). As described in this report, surrounding land uses are predominately comprised of farmlands with a few scattered residential homesteads. The Property Value Impact Study concludes on Page 11 that “...*the proposed Project would not be incompatible with surrounding uses and would not negatively impact the surrounding properties.*”
2. **Exhibit 2** contains the legal descriptions of the Project’s participating parcels.
3. A preliminary layout of the proposed Project is located in **Exhibit 3**, which details the proposed access locations to the site. A seven-foot-tall security fence will be constructed around the Project’s facilities and will include gated access to the site. Appropriate signage, including “High Voltage Keep Out” or equivalent warning signs, will also be placed at all gates, entrances, and approximately every 100 to 200 ft along the perimeter of the Project’s facilities.
4. The preliminary layout of the Project (**Exhibit 3**) details the location of proposed facility arrays and other infrastructure. An existing substation and transmission system will be utilized for the Project.
5. **Exhibit 3** provides the preliminary layout of the proposed Project. Use of access ways, internal roads, and railways is discussed in the Traffic and Dust Study (**Appendix 6**). One railway is located within the proposed Project; however, use of railways for construction is not anticipated and impacts to railway traffic during Project operation are not expected.
6. The existing Meade Substation, located at Guston Road and Highway 79 in Meade County, will be utilized for the Project (**Exhibit 3**). The 161 kV Meade Substation and transmission system owned by the Big Rivers Electric Corporation will serve as the Project’s Point of Interconnection and carry power generated by the Project. It is not anticipated that additional external utility services or support will be required during typical plant operation.

7. Applicable setback requirements are discussed in the Verified Application for Green River Solar, LLC (Application, Volume 1, Tab 3) and Section 2.0 of this Site Assessment Report. Green River Solar will comply with the setback requirements set forth in the Meade County Solar Ordinance and seek a deviation from the statutory setback requirements for the portions of the Project located within Breckinridge County.
8. A Noise Impact Assessment, conducted by DNV Energy Systems (DNV) is included in **Exhibit 4** and details the noise levels expected to be produced by the construction and operation of the Project. This report indicates that maximum sound pressure levels at nearby receptors are expected to be less than 80.0 A-weighted decibels (dBA) during Project construction and less than 50.4 dBA during Project operations. Noise levels during construction are anticipated to be similar in magnitude with other sources that may be active in rural agricultural environments, such as farm machinery. Modeled levels during operation are considered to be equivalent to a quiet rural environment.
9. A Phase I Environmental Site Assessment (ESA) was conducted by Shoener Environmental, Inc. in September 2020 for an area that includes the proposed Project area. No evidence of any recognized environmental conditions was identified. See **Exhibit 7** for the complete Phase I ESA.

2.0 Compatibility with Scenic Surroundings

REQUIREMENT: per KRS 278.708 (3)(b); *An evaluation of the compatibility of the facility with scenic surroundings.*

COMPLIANCE:

Compatibility with the surrounding land uses is discussed in the Property Value Impact Study (**Exhibit 1**), which determined on Page 11 that “...the proposed Project would not be incompatible with surrounding [land] uses and would not negatively impact surrounding properties.” Please refer to Pages 7 through 11 in **Exhibit 1**, which address setbacks, topography, and surrounding land use. The Project is located within flat and occasionally elevated farmlands, with Project equipment base elevations ranging from approximately 536 to 730 feet above mean sea level, as described in Section 4.0 of **Exhibit 4**.

Additionally, solar panel heights are described in **Exhibit 1** and will not “exceed 25 feet from the highest natural grade below each solar panel,” as required by the Meade County Zoning Ordinance. Breckinridge County does not require height restrictions on solar panels; however, solar panels within portions of Breckinridge County will be constructed in accordance with Meade County requirements and will also not exceed 25 feet. Additionally, components of the proposed Project, including inverters, solar panels, and additional ancillary solar equipment will be set back at least 50-ft from perimeter property lines and at least 250-ft from any residential structure, nursing home, church, or school as required by Section 4.3.7.3.c. of the Meade County Zoning Ordinance. These setbacks are also proposed to be implemented for portions of the Project located within Breckinridge County.

Additionally, a proposed vegetative buffer, approximately 26,000 ft in total length, will be planted in areas adjacent to residential properties around the Project boundary if one does not already exist. Vegetative screening will be planted in accordance with regulations detailed in Section 4.3.7.3.d of the Meade County Zoning Ordinance and will include a naturalized mix of trees and shrubs suitable for the specific site conditions. As required in the Meade County Zoning Ordinance, vegetative screening shall reduce visual impacts from the proposed Project from “*residential dwelling units on adjacent lots (including those lots located across a public right of way.*” Because Breckinridge County does not have vegetative screening requirements for solar facilities, a vegetative screening compliant with the standards outlined in the Meade County Zoning Ordinance will also be implemented for portions of the Project within Breckinridge County.

The proposed vegetative screening will provide an attractive buffer to help draw the viewer’s attention, effectively mitigating negative visual impacts from the Project. Additionally, Green River Solar, LLC will leave existing vegetation between solar equipment and neighboring residences in place, to the extent practicable, to help screen the Project and reduce visual impact. The preliminary site plan (**Exhibit 3**) shows the locations planned for the vegetative buffer and **Exhibit 5** depicts a visual representation of the potential vegetative screening. Species to be utilized for the vegetative buffer will include non-invasive trees and shrubs suitable to the site conditions. A mixture of evergreen and deciduous species may be utilized to provide visual interest across all seasons. Utilizing a variety of

species is also beneficial to minimize the risk of pests and disease. Preference will be given to commercially available cultivar species that are native to the state of Kentucky and may include a mixture of the following species detailed in **Table 1**.

Table 1. Potential Evergreen and Deciduous Species Utilized by the Proposed Project

Type	Species	Scientific Name
Coniferous Trees and Shrubs	white Pine	<i>Pinus strobus</i>
	Virginia Pine	<i>Pinus virginiana</i>
	red Cedar	<i>Juniperus virginiana</i>
	common Juniper*	<i>Juniperus communis</i>
Broadleaf Small Trees and Shrubs	serviceberry	Amelanchier spp.
	dogwood	Cornus spp.
	winterberry	Ilex spp.
	chokecherry	<i>Prunus virginiana</i>
	ninebark	<i>Physocarpus opulifolius</i>
	sumac	Rhus spp.
	viburnum	Viburnum spp.

* an upright growing habitat cultivar

3.0 Property Value Impacts

REQUIREMENT: Per KRS 278.708 (3)(c); *The potential changes in property values and land use resulting from the siting, construction, and operation of the proposed facility for property owners adjacent to the facility.*

COMPLIANCE:

A detailed description of the surrounding land uses is identified in the Property Value Impact Study, conducted by CohnReznick, and is attached as **Exhibit 1**. The Property Value Impact Study determined that the proposed Project is considered a “locally compatible use.”

The Property Value Impact Study reviewed published studies that also analyzed the impact of solar farms on adjacent property values. On page 22, the report states that *“These studies found little to no measurable and consistent difference between the Test Areas Sales and the Control Areas Sales attributed to the solar farms. Specifically, in a 2017 study conducted by Chicago County Assessor John Jeeffe, Jeeffe analyzed the numbers for 15 parcels alongside or near the North Start Solar Farm that sold between January 2016 and October 2017. Based on trends exhibited by 750+ sales throughout the county, Jeeffe concluded that the homes, located on 375th, 367th, Keystone, Little Oak, Lincoln Trail, and Kost Trail were all in excess of assessed and reported that valuation hasn’t suffered.”*

Additionally, market participants were also interviewed in the Property Value Impact Study, including County Property Value Administrators in Kentucky, to provide additional insight as to how farmland and single-family homes with views of solar farms were evaluated on the market. The report states that *“Grant County, Kentucky Property Value Administrator, Elliot Anderson, told us that Duke Energy built a 2.7 MW solar farm near Crittenden, adjacent to existing homes on Claiborne Drive in December 2017. There have been nine arm’s length home sales on that street since the solar farm came online, due to normal market conditions. Each of those nine homes sold higher than its Assessed Value, one of them over 32 percent higher. The Assessed Values in Grand County are based on 100 percent Fair Market Values as determined by the Property Values Administrator’s office. Anderson noted that several more lots are for sale by the developer and four more homes are currently under construction, set to deliver in 2021. Anderson said that the solar farm has no impact either on adjoining home values or on marketability or desirability of those homes adjacent to the solar farm. Anderson added, the homes sold at market prices in a market that has been experiencing a boom since at least mid-2019.”*

The Property Value Impact Study concludes that *“no consistent negative impact has occurred to adjacent property that could be attributed to proximity to the adjacent solar farm.”* A more detailed paired analysis report, “Impact Study of Property Values Adjacent to Solar – A Study of Ten Existing Solar Facilities, discusses specific solar farms in more detail and is included in **Exhibit 1**. Therefore, the Green River Solar Project is not anticipated to negatively impact property values in and around the proposed facility.

4.0 Anticipated Noise Levels at Property Boundary

REQUIREMENT: Per KRS 278.708 (3)(d); *Evaluation of anticipated peak and average noise levels associated with the facility's construction and operation at the property boundary.*

COMPLIANCE:

A Noise Impact Assessment was conducted by DNV Energy Systems for the Project, and is included as **Exhibit 4**. The Noise Impact Assessment evaluated potential noise impacts resulting from both the construction and operation of the Project. During Project development, construction is anticipated to occur intermittently over the course of eighteen months to two years at different locations throughout the Project site. Noise-producing construction activities include pile driving for solar array panel racking as well as demolition and site preparation activities involving grading. During operational conditions, an estimated 99 total solar inverters, including 89 inverters plus 10 alternates, and one step-up transformer, located at the Project substation, were evaluated.

A summary of the Noise Impact Assessment results is located in Sections 5.0 and 6.0 of the Noise Impact Assessment (**Exhibit 4**). The Noise Impact Assessment determined that maximum sound pressure levels at nearby receptors are expected to be less than 80.0 dBA during Project construction and range from 26.6 dBA to 50.4 dBA during Project operations. These results were adjusted with a A-weighting filter, which was *"applied to closely approximate the human ear's response to sound"* as dBA, which is commonly used when assessing environmental and industrial sounds.

A detailed discussion of noise impacts during construction, included in Section 5.0, indicates that *"the closest structure is located at least 200 feet from the Project boundary; therefore, Sound Pressure Levels (SPLs) at nearby receptors ... are expected to be less than 80.0 dBA... It is important to note that this analysis assumes the construction equipment associated with each phase is operating simultaneously at the specified distance. Other noise attenuation effects such as atmospheric absorption, ground effect, reflection and shielding by topographical features or objects were not considered in the analysis."* The Noise Impact Assessment further states that *"Typical farming equipment such as a tractor can emit sound level at approximately 80 dbA at 50 ft. The calculated construction sound pressure levels are expected to be similar to lower than typical farming equipment at all receptors. Considering farming activity occurs during the day when construction is scheduled, sound emitted by construction equipment should be familiar to what the community currently experiences in the existing sound environment. Due to the conservative nature of the assessment, it is expected that sound levels will be less than the reference tractor sound level at 50 ft."*

A detailed discussion of noise impacts during operation, included in Section 6.0, indicates that *"the highest modelled results throughout the Project area for A-weighted sound pressure levels are 50.4 dBA. This can be considered equivalent to a noise level in a quiet rural environment."* Further, the report states that *"additional attenuation from foliage was not considered in this assessment, implying that lower sound levels are expected in areas where there is foliage present in the line of sight between any noise generators and a sound receptor. Similarly, because the model assumes every receptor is downwind of every sound source at all times, lower sound levels are expected at times when a receptor is upwind of any sound source."*

The Project anticipates that all construction, operation, and maintenance activities will generally occur from 6:00 AM to 6:00 PM. There may be some occasions during commissioning when activities will

occur later into the evening, but this is would be a rare exception. The duration of the construction period is anticipated to last for 18 months – 2 years.

5.0 Effect on Road, Railways, and Fugitive Dust

REQUIREMENT: Per KRS 278.708 (3)(e); *The impact of the facility's operation on road and rail traffic to and within the facility, including anticipated levels of fugitive dust created by the traffic and any anticipated degradation of roads and lands in the vicinity of the facility.*

COMPLIANCE:

A Traffic and Dust Study was conducted by Integrated Engineering/PRIME AE for the Project, and is included as **Exhibit 6**. This study assesses the Project's potential impacts to road and rail traffic, as well as anticipated levels of fugitive dust created from construction and operational traffic.

The Traffic and Dust Study determined that *"even though the traffic in the project vicinity is predicted to increase during the construction phase of the Project, there is so much excess capacity that this roadway system will continue to perform at a very high level of service. This includes daily morning and evening peaks as construction workers enter and exit the Project site and the period delivery of construction material and equipment."* A detailed discussion of the effect of Project construction and operation on roadway traffic is included in Section 2.0 (**Exhibit 6**). Furthermore, Green River Solar, LLC will develop a traffic management plan, implement traffic guidance, and install appropriate signage to ensure driver safety during construction. During Project operations *"there will be no significant increase in traffic, as there will be very little, if any, impact to the existing road system."*

Section 3.0 of **Exhibit 6** describes anticipated Fugitive Dust Impacts associated with the proposed Project. During Project construction, *"land disturbing activities associated with the proposed Project may temporarily contribute to airborne materials. To reduce wind erosion of disturbed areas, appropriate revegetation measures, application of water, or covering of spoil piles may occur. In addition, any open-bodies truck transporting dirt will be covered when the vehicle is in motion. The size of the Project site, distance to nearby structures and roadways...along property boundaries and fencerows will aid in managing off sites dust impacts. Internal roads will be compacted gravel, which may result in an increase of airborne dust particles during dry conditions when internal road traffic is heavy. During construction activities water may be applied to the internal road system to reduce dust generation."*

One CSX Transportation (CSX) rail line is located within the Project corridor; however, the proposed Project will not be using railways for any construction or operation activities. Section 4.0 of **Exhibit 6** describes the anticipated impacts on existing railways within the Project boundary. In summary, *"Railway impacts to construction traffic are anticipated to be very minimal with only sporadic delays when the railway is active. Likewise, there will be no railway impact during the operational phase of this solar site. There are not anticipated damages to existing railroad infrastructure."*

6.0 Mitigation Measures

REQUIREMENT: Per KRS 278.708(4); *The site assessment report shall also suggest any mitigating measures to be implemented by the applicant to minimize or avoid adverse effects identified in the site assessment report;* and per KRS 278.708(6); *The applicant shall be given the opportunity to present evidence to the board regarding any mitigation measures. As a condition of approval for an application to obtain a construction certificate, the board may require the implementation of any mitigation measures that the board deems appropriate.*

COMPLIANCE:

Green River Solar, LLC is anticipating implementing the following mitigation measures to minimize or avoid adverse effects identified within the Site Assessment Report:

1. Within areas of the Project a visual buffer will be used to mitigate viewshed impacts to sensitive receptors nearby, primarily residences. Anticipated planting areas and a preliminary site layout are included in **Exhibit 3**, and **Exhibit 5** provides a preliminary visual representation of the proposed vegetative screening. Vegetative screenings will be planted primarily in areas where residential parcels adjacent to the Project do not have existing vegetation. Additionally, Green River Solar, LLC will leave existing vegetation between solar equipment and neighboring residences in place, to the extent practicable, to help screen the Project and reduce visual impact.
2. Within the Project area, 2 acres of native pollinator-friendly species will be cultivated.
3. Components of the proposed Project, including inverters, solar panels, and additional ancillary solar equipment will be set back at least 50-ft from perimeter property lines and at least 250-ft from any residential structure, nursing home, church, or school as required by Section 4.3.7.3.c. of the Meade County Zoning Ordinance. These setbacks will also be implemented for portions of the Project located within Breckinridge County if the Siting Board grants the request for a deviation.
4. Green River Solar has committed to use low-sulphur diesel trucks and equipment to the extent practicable during construction in addition to down lighting in locations where lighting is required.
5. During Project operations, where lighting installation is required, Green River Solar, LLC has committed to using down lighting.
6. Green River Solar, LLC will notify residents and businesses in the vicinity of the proposed Project about the start of construction, potential construction noises, and mitigation plans at least a month prior to commencing Project construction. These notifications will include contact information for receiving complaints.
7. Prior to and during construction, Erosion and Sediment Control (E&S) devices and Best Management Practices (BMPs), such as silt fences/silt socks, sediment basins, sediment traps, and/or buffer zones, will be deployed around sensitive resources.
8. Post-construction, disturbed areas will be seeded with a native and/or non-invasive perennial grass and herbaceous seed mix. E&S devices will be inspected and maintained until vegetation in disturbed areas has been returned to pre-construction conditions or the Project site is stable.

9. Environmental permitting pertaining to state and federally regulated wetlands and watercourses, as well as stormwater discharges, will be addressed as applicable based on proposed impacts. The following permits and other applications will be obtained from the appropriate regulatory agencies, as applicable, as the proposed Project prepares for construction:
 - a) Wetland delineations have been conducted for the majority of the proposed Project parcels. Green River Solar, LLC will be conducting wetlands delineations on the remaining parcels, in addition to amending an Approved Jurisdictional Determination, received from the U.S. Army Corps of Engineers (USACE) in March 2021, after the updated delineations have been completed. If the Project is expected to impact jurisdictional features, including regulated wetland and watercourses, a Clean Water Act (CWA) Section 404 permit will be required from the USACE. Additionally, depending on anticipated impacts, a CWA Section 401 Water Quality Certification may also be required from the Kentucky Energy and Environment Cabinet – Division of Water. At this time, Green River Solar, LLC has avoided impacts to regulated wetlands and watercourses to the extent possible and does not anticipate impacts to federal or state jurisdictional features for Project development.
 - b) A General Permit for Stormwater Discharges Associated with Construction Activities will be obtained from the Kentucky Department of Environmental Protection, which is required for projects that disturb one or more acres of land.
 - c) Prior to construction, Green River Solar, LLC will develop a Ground Water Protection Plan compliant with the Kentucky Energy and Environment Cabinet’s guidance to identify activities on-site that have the potential to pollute groundwater and Best Management Practices (BMPs) that will be employed during Project development to protect groundwater resources.
 - d) Tree clearing activities will be limited seasonally to avoid potential impacts to Indiana and Northern long-eared bat habitat. Additionally, Green River Solar, LLC has been coordinating with the applicable state and federal agencies.
10. The Project will meet all requirements under Meade County Solar Ordinance regarding Decommissioning, including posting of a Surety Bond or other form of Security, submittal of a decommissioning plan, and restoration of the property to substantially similar physical condition that existed immediately prior to construction.
11. Access control strategy will also include appropriate signage to warn potential trespassers. The Project will ensure that all site entrances and boundaries have adequate signage, particularly in locations visible to the public, local residents, and business owners. Access control will be provided per NERC, NFPA, and OSHA guidelines.
12. A Traffic Management Plan will be developed to minimize impacts of any traffic increases and keep traffic safe. The Project will use appropriate signage as needed to aid construction traffic. All necessary permits will be obtained prior to bringing in heavy loads. The traffic management plan will also include protocols to ensure the local fire departments has immediate access to the roadway when needed.

Exhibit 1 Property Value Impact Studies

Exhibit 2 Legal Property Descriptions of Site

Exhibit 3 Preliminary Site Layout

Exhibit 4 Noise Impact Assessment

Exhibit 5 Preliminary Visual Representation of Proposed Visual Screening

Exhibit 6 Traffic and Dusty Study

Exhibit 7 Phase I Environmental Site Assessment

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2

Tab 11

Attachment A

Exhibit 1

Property Value
Impact Studies
(170 Pages)



PROPERTY VALUE IMPACT STUDY

IMPACT STUDY OF PROPERTY VALUES ADJACENT TO SOLAR USES

Site Specific Analysis Addendum Report:
For the Proposed Solar Project to be Located in Breckenridge County and Meade County,
Kentucky

PREPARED FOR:

Ms. Lina Jensen
Project Director
Green River Solar, LLC

SUBMITTED BY:

CohnReznick LLP
Valuation Advisory Services
200 S. Wacker Drive, Suite 2600
Chicago, Illinois 60606
(312) 508-5900

April 9, 2021

Andrew R. Lines, MAI
Patricia L. McGarr, MAI, CRE, FRICS

LETTER OF TRANSMITTAL

April 9, 2021

Ms. Lina Jensen
Project Director
Green River Solar, LLC

SUBJECT: Addendum - Property Value Impact Study
Proposed Solar Project
Breckenridge County and Meade County, Kentucky

Dear Ms. Jensen:

This letter and associated report are considered an Addendum to the previously prepared property value impact study report with an effective date of April 9, 2021 (“Primary Report”). All facts and circumstances surrounding the property value impact study that analyzes existing solar farm and any effect on adjacent property values are contained within the cited Primary Report. This Addendum cannot be properly understood without the cited Primary Report and should be reviewed in unison.

Per the client’s request, we have researched the proposed solar farm on land located in unincorporated Breckenridge County and Meade County, Kentucky. The proposed solar use called Green River Solar will have a capacity of 200 MW AC (megawatts alternating current).

The purpose of the assignment is to determine whether the proximity of the proposed renewable energy center use (solar farm) will result in any significant measurable and consistent impact on adjacent property values, given the existing uses and zoning of nearby property at the time of development.

The intended use of our opinions and conclusions is to assist the client in addressing local concerns regarding the proposed solar farm’s potential impact on surrounding property values, in addition to addressing the required criteria for obtaining approvals for the proposed solar farm, such as minimizing the impact on adjacent property values. We have not been asked to value any specific property, and we have not done so.

The client and intended user for the assignment is Green River Solar, LLC, in care of NextEra Energy Resources. Additional intended users of our findings include Breckenridge County and Meade County, Kentucky planning and zoning department officials as well as the Kentucky State Electric Generation and Transmission Siting Board. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP (“CohnReznick”).

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Adjacent Property Value Impact Study Addendum Report: Proposed Green River Solar Project Page | 3

The assignment is intended to conform to the Uniform Standards of Professional Appraisal Practice (USPAP), the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute as well as applicable state appraisal regulations.

Based on the analysis in the accompanying report, and subject to the definitions, assumptions, and limiting conditions expressed in the report, our findings follow below.

CONCLUSIONS

We analyzed 37 adjoining property sales and over 238 comparable sales, collectively, for the identified eleven solar farms (detailed in the Primary Report), over the past five years. We note that proximity to the solar farms has not deterred sales of nearby agricultural land and residential single-family homes nor has it deterred the development of new single-family homes on adjacent land.

No empirical evidence evolved that indicated a more favorable real estate impact on the Control Area Sales as compared to the adjoining, Test Area Sales with regard to such market elements as:

1. Range of sale prices
2. Differences in unit sale prices
3. Conditions of sale
4. Overall marketability
5. New Development
6. Rate of Appreciation

We have also reviewed studies prepared by other real estate valuation experts that specifically analyzed the impact of solar facilities on nearby property values. These studies found little to no measurable and consistent difference in value attributed to the proximity to solar farms between unit prices for Test Area Sales and Control Area Sales and noted that solar energy uses are generally considered a compatible use.

We have also interviewed market participants, including County and Township Assessors, to give us additional insight as to how the market evaluates farmland and single-family homes with views of the solar farm. These local real estate assessors who have at least one solar farm in their jurisdiction have determined that property adjacent to solar farms have not affected adjacent property values, specifically:

- A Grant County, Kentucky Assessor stated that they have not seen a reduction in assessed property values or market values for adjacency to Solar Farms.
- A McNairy County, Tennessee Assessor stated that they have not applied reductions to assessed value for adjacency to Solar Farms.

Considering all of this information, we can conclude that since the Adjoining Property Sales (Test Area Sales) for the existing solar farms analyzed were not adversely affected by their proximity to solar farms, that properties surrounding other solar farms operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short- or long-term periods.

Adjacent Property Value Impact Study Addendum Report: Proposed Green River Solar Project Page | 4

If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Very truly yours,

CohnReznick LLP



Andrew R. Lines, MAI
Principal- Valuation Advisory Services
Certified General Real Estate Appraiser

Kentucky License 5663
Expires 6/30/2021
Florida License No. RZ3899
Expires 11/30/2020
Indiana License No. CG41500037
Expires 6/30/2022
Georgia License No. 360939
Expires 10/31/2021



Patricia L. McGarr, MAI, CRE, FRICS
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Certified General Real Estate Appraiser

Indiana License No. CG49600131
Expires 6/30/2022
North Carolina License No. A8131
Expires 6/30/2021
Virginia License No. 4001016998
Expires 3/31/2022
Michigan License No. 1201072979
Expires 7/31/2022

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SCOPE OF WORK

CLIENT

The client for this assignment is Green River Solar, LLC, in care of NextEra Energy Resources.

INTENDED USERS

Green River Solar, LLC, in care of NextEra Energy Resources, Breckenridge County and Meade County, Kentucky planning and zoning department officials, and Kentucky State Electric Generation and Transmission Siting Board; other intended users may include the client's legal and site development professionals.

INTENDED USE

The intended use of our findings and conclusions is to address certain criteria required for the granting of approvals for the proposed solar energy center use in Breckenridge County and Meade County, Kentucky, including the minimization of impact on nearby or adjacent property values. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP ("CohnReznick").

PURPOSE

The purpose of the assignment is to determine whether the proximity of the studied facilities (solar farms) resulted in any significant measurable and consistent impact on adjacent property values, given the existing uses and zoning of nearby property at the time of development; address local concerns regarding a solar farm use having a perceived impact on surrounding property values; and, provide a consulting report that can address criteria for obtaining approvals for the proposed solar energy center use known as Green River, LLC.

EFFECTIVE DATE

April 9, 2021

DATE OF REPORT

April 9, 2021

PRIOR SERVICES

USPAP requires appraisers to disclose to the client any services they have provided in connection with the subject property in the prior three years, including valuation, consulting, property management, brokerage, or any other services.

We have not previously evaluated the Project site.

INSPECTION

Patricia L. McGarr, MAI and Andrew R. Lines, MAI have viewed the exterior of the Project and all comparable data referenced in the study in person, via photographs, or aerial imagery.

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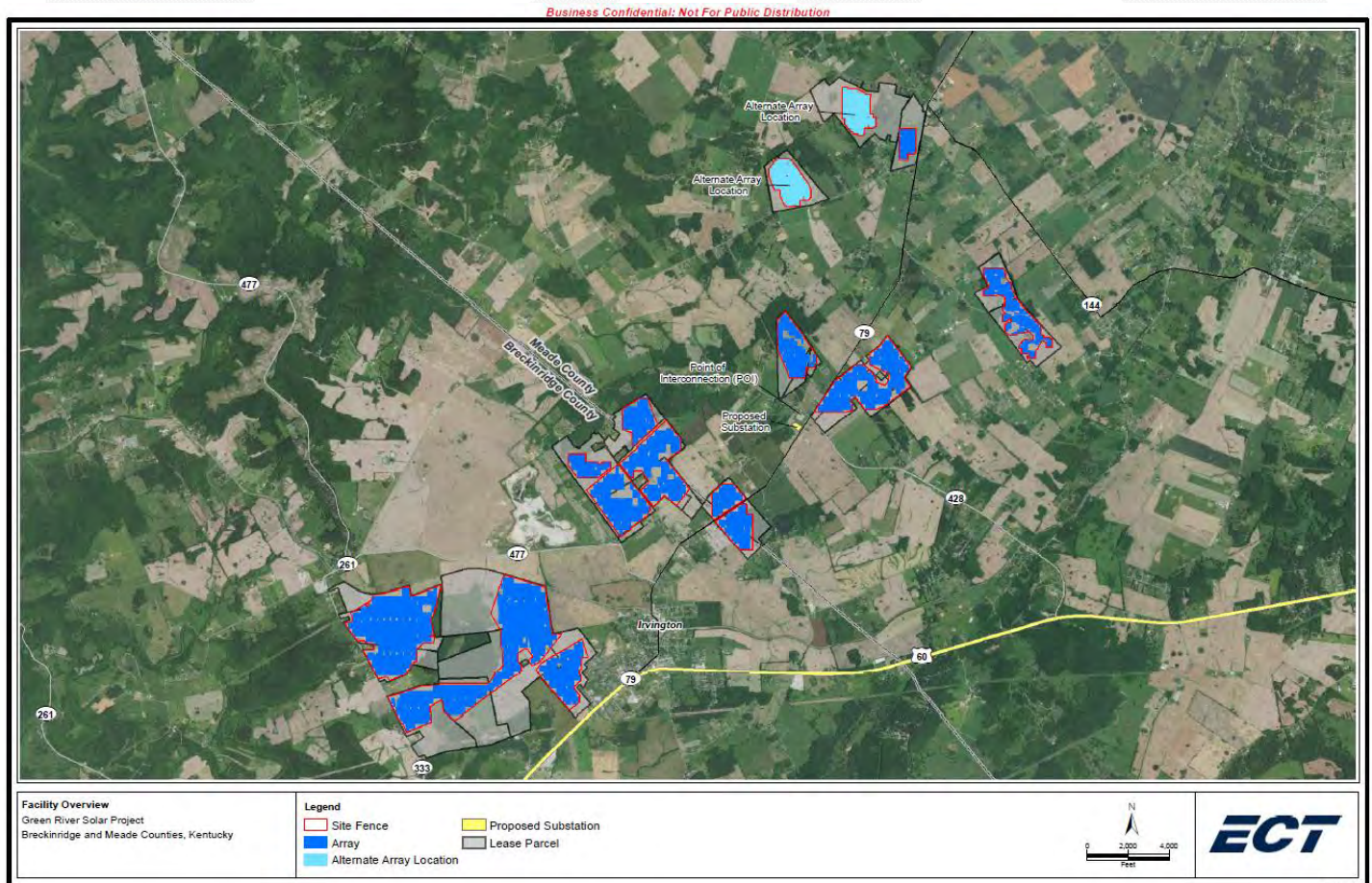
Adjacent Property Value Impact Study Addendum Report: Proposed Green River Solar Project Page | 7

IDENTIFICATION AND DESCRIPTION OF THE PROPOSED PROJECT

The Green River Solar Project (“the Project”) is to be located on land that is split between Breckenridge County and Meade County, KY, north of US Highway 60 and South of Sandy Hill Road. The site sits on the townships of Webster and Irvington, KY.

Based on development plans for a typical solar farm, the proposed 200-megawatt solar energy center project would generally consist of solar photovoltaic arrays, electrical inverters, underground collection lines, security fencing, safety lighting, and other auxiliary infrastructure. It will take approximately 18 to 24 months to construct. The Project will be protected by a security fence with two rows of barbed wire at the top. The Project will follow county requirements for vegetative buffers.

The Project will be situated on land parcels utilized for agricultural and forestry purposes, illustrated below by the polygons outlined in red (“Project Area”). The Project parcels are bordered by agricultural farmland and rural homesteads.



Proposed Green River Solar Project Area
Facility Overview provided by Green River Solar, LLC

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According to information provided by Green River Solar, LLC that is consistent with the latest guidelines from Meade County, the proposed Project shall be at least fifty (50) feet from the perimeter property lines of the Project Area and at least two hundred fifty (250) feet from any residential structure, nursing home, church, or school; interconnection facilities may be located within the setback lines.

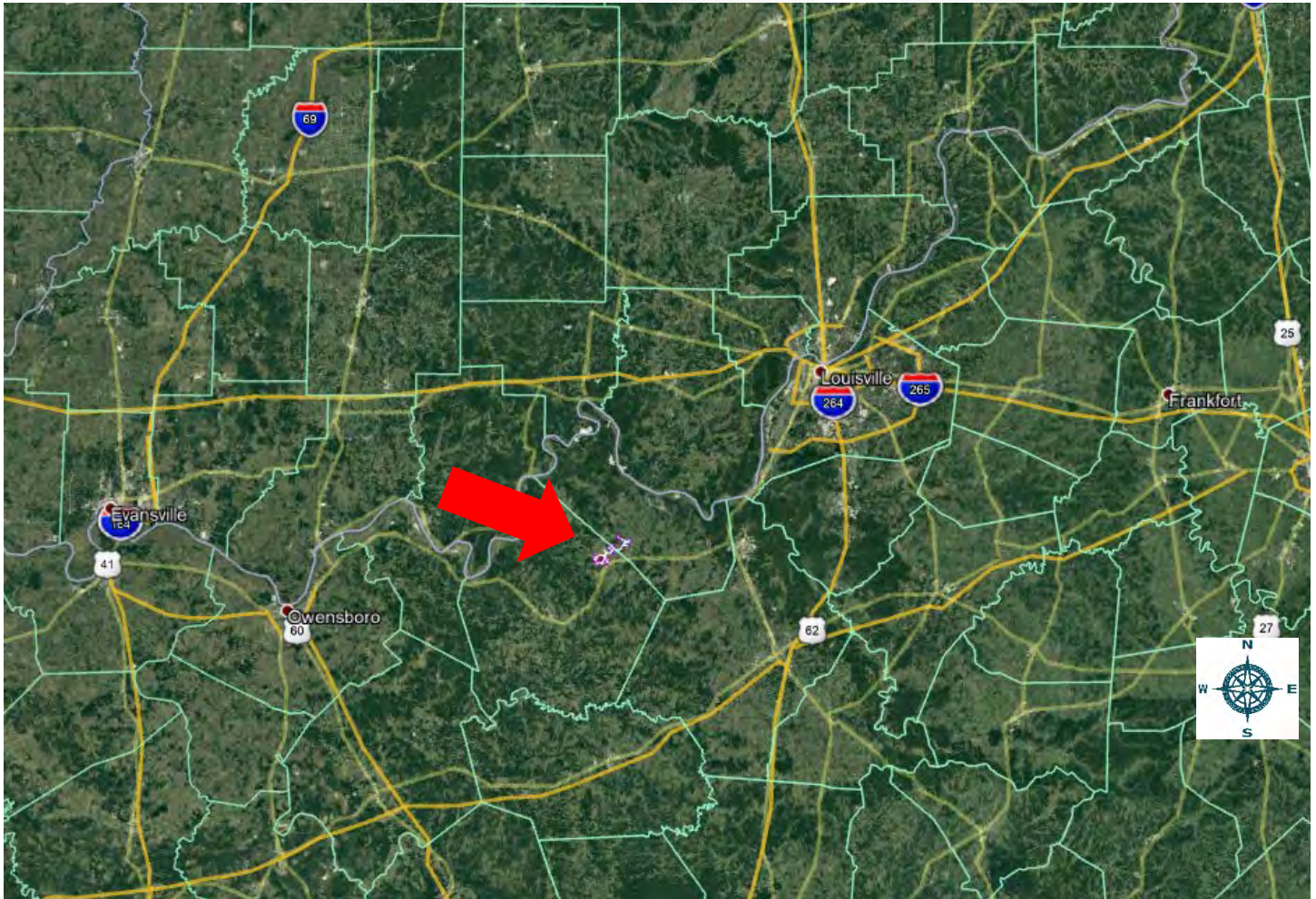
Per the Meade County Solar Energy Ordinance (“the Ordinance”), which is being used as the compliance basis for the SES located in Breckenridge County, this is a Level 3 Solar Energy System. The Ordinance states:

All Level 3 SES shall be screened with a seven (7) foot tall fence and, to the extent reasonably practicable, a visual buffer that provides reasonable screening to reduce the view of the SES from residential dwelling units on adjacent lots (including those lots located across a public right of way). A vegetation screening plan to reduce the view of the SES from residential dwelling units on adjacent lots will be submitted as part of the site plan for approval of the Meade County Planning Commission. The existing natural tree growth and natural land forms along the SES perimeter may create a sufficient buffer and shall be preserved when reasonably practicable. When no alternative vegetation screening plan is approved by the Meade County Planning Commission, a double row of staggered evergreen trees will be planted 15’ on center from adjacent non participating residential dwellings including the outdoor living space immediately near residential dwellings. Parcel boundaries with no proximity to residential dwellings shall not require screening. The proposed evergreen trees shall be placed on the exterior of security fencing. The use of barbed wire or sharp pointed fences shall be prohibited in or along any boundary adjoining residential properties. The Meade County Planning Commission may require additional screening and/or visual buffers on a case-by-case basis.

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OVERVIEW OF THE SURROUNDING AREA OF THE PROJECT

The proposed Project consists of a utility-scale, solar energy use in Breckenridge County and Meade County, Kentucky. A surrounding area map indicating the location of the Project (designated by a red arrow) is presented below.



Aerial imagery of site area provided by Google Earth, dated November 2020.

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TRAFFIC PATTERNS AND CONNECTIVITY

The Project is to be located on land primarily on the east side of Webster Basin Spring Road, west of Midway Road in Breckenridge County and Meade County, Kentucky. The site is more specifically bordered by Sandy Hill Road to the north, and US Highway 60 to the south. The site sits on the Townships of Webster and Irvington, KY.

Major arterials in the Project’s surrounding area include US-60 that runs roughly east-west and Kentucky Highway 79 that runs roughly north-south. The Project is approximately 80 miles east of the Illinois State border, approximately 120 miles north of Nashville, Tennessee, and 40 miles southwest of Louisville, Kentucky.

DEMOGRAPHIC FACTORS

Demographic data is presented below, as compiled by ESRI, which indicates a sparse population in the area directly surrounding the Project but a slightly increasing population in the area. The data also indicates that the area is predominantly owner-occupied. Median household income is consistent between the state level and the immediate three-mile radius than the rest of the county. These features indicate a stable population and economic base overall.

DEMOGRAPHIC PROFILE					
Population	1 mile		3 miles		5 miles
2025 Summary	23		1,657		3,840
2020 Summary	22		1,619		3,750
2010 Census Summary	21		1,486		3,489
Growth 2010 - 2020	4.76%		8.95%		7.48%
Growth 2020 - 2025	4.55%		2.35%		2.40%
Households					
2025 Summary	11		638		1,527
2020 Summary	11		623		1,491
2010 Census Summary	10		573		1,387
Growth 2010 - 2020	10.00%		8.73%		7.50%
Growth 2020 - 2025	0.00%		2.41%		2.41%
2020 Owner Occupied	8	80.0%	474	76.1%	1,156 77.5%
2020 Renter Occupied	2	20.0%	149	23.9%	335 22.5%
2020 Med. Household Income	\$35,000		\$40,632		\$45,755
2020 Avg. Household Income	\$44,471		\$50,024		\$55,235

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CONCLUSION

Land uses in the area surrounding the Project can be categorized as predominantly farmland and a few residential homesteads. The factors presented previously indicate that the proposed Project would not be incompatible with surrounding uses and would not negatively impact surrounding properties.

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KENTUCKY SOIL PRODUCTIVITY AND VALUE TRENDS

NCCPI PRODUCTIVITY INDEX

Crop yields have been the basis for establishing a soil productivity index, and are used by county assessors, farmers, and market participants in assessing agricultural land. While crop yields are an integral part in assessing soil qualities, it is not an appropriate metric to rely on because “yields fluctuate from year to year, and absolute yields mean little when comparing different crops. Productivity indices provide a single scale on which soils may be rated according to their suitability for several major crops under specified levels of management, such as an optimum level.”¹ The productivity index, therefore, not crop yields, is best suited for applications in land appraisal and land-use planning.

The United States Department of Agriculture’s (USDA) National Resources Conservation Services (NRCS) developed and utilizes the National Commodity Crop Productivity Index (NCCPI) as a national soil interpreter and is used in the National Soil Information System (NASIS), but it is not intended to replace other crop production models developed by individual states.² The focus of the model is on identifying the best soils for the growth of commodity crops, as the best soils for the growth of these crops are generally the best soils for the growth of other crops.³ The NCCPI model describes relative productivity ranking over a period of years and not for a single year where external influences such as extreme weather or change in management practices may have affected production. At the moment, the index only describes non-irrigated crops, and will later be expanded to include irrigated crops, rangeland, and forestland productivity.⁴

Yields are influenced by a variety of different factors including environmental traits and management inputs. Tracked climate and soil qualities have been proven by researchers to directly explain fluctuations in crop yields, especially those qualities that relate to moisture-holding capacity. Some states such as Illinois have developed a soil productivity model that considers these factors to describe “optimal” productivity of farmed land. Except for these factors, “inherent soil quality or inherent soil productivity varies little over time or from place to place for a specific soil (map unit component) identified by the National Cooperative Soil Survey (NCSS).”⁵ The NRCS Web Soil Survey website has additional information on how the ratings are determined. The **State of Kentucky** does not have its own crop production model and utilizes the NCCPI.

The proposed solar farm will be located in unincorporated Breckenridge and Meade Counties, in the western portion of the state. An excerpt of a soil productivity map is presented on the following page as retrieved from the USDA Web Soil Survey, which provides an illustration of the variation in soil productivity across the local area that is based on the NCCPI. The approximate site area for the Project is within boundary delineated in the image on the following page. Note, numerical labels correspond to soil type, not productivity index.

1 Bulletin 811: Optimum Crop Productivity of Illinois Soils. University of Illinois, College of Agricultural, Consumer and Environmental Sciences, Office of Research. August 200.

2 Agricultural land rental payments are typically tied to crop production of the leased agricultural land and is one of the primary reasons the NCCPI was developed, especially since the model needed to be consistent across political boundaries.

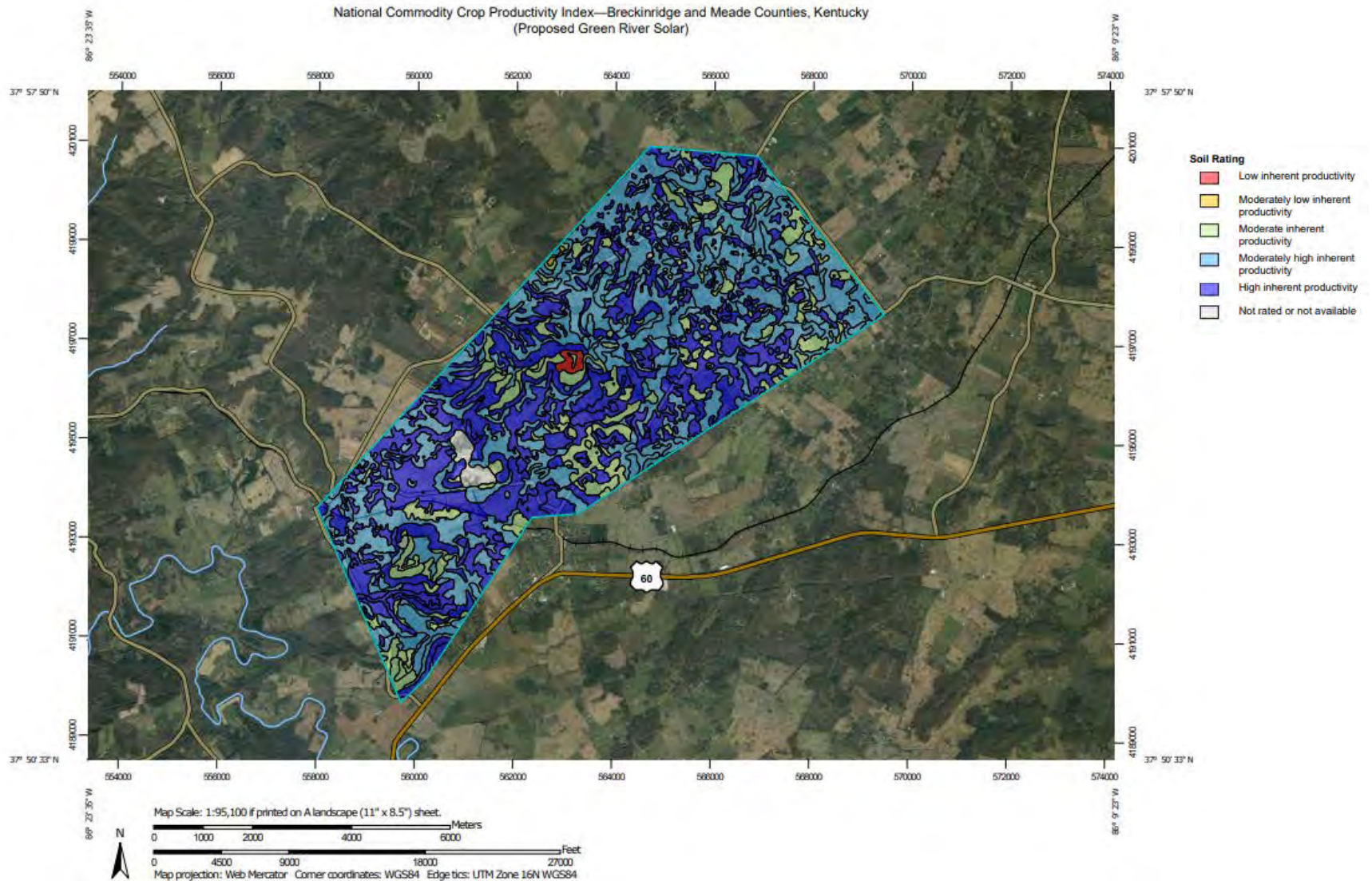
3 Per the User Guide for the National Commodity Crop Productivity Index, the NCCPI uses natural relationships of soil, landscape and climate factors to model the response of commodity crops in soil map units. The present use of the land is not considered in the ratings.

4 AgriData Inc. Docs: [http://support.agridatainc.com/NationalCommodityCropProductivityIndex\(NCCPI\).ashx](http://support.agridatainc.com/NationalCommodityCropProductivityIndex(NCCPI).ashx)

5 USDA NRCS’s User Guide National Commodity Crop Productivity Index (NCCPI)

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Adjacent Property Value Impact Study Addendum Report: Proposed Green River Solar Project



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Per the NCCPI, soil productivity is measured on both a numerical scale from 0 to 100, with 0 being the worst and 100 being the best,⁶ and by qualitative ratings. The qualitative rating classifications below are determined by the USDA NRCS and provide general comments on the productivity of the soil.

High inherent productivity indicates that the soil, site, and climate have features that are very favorable for crop production. High yields and low risk of crop failure can be expected if a high level of management is employed.

Moderately high inherent productivity indicates that the soil has features that are generally quite favorable for crop production. Good yields and moderately low risk of crop failure can be expected.

Moderate inherent productivity indicates that the soil has features that are generally favorable for crop production. Good yields and moderate risk of crop failure can be expected.

Moderately low inherent productivity indicates that the soil has features that are generally not favorable for crop production. Low yields and moderately high risk of crop failure can be expected.

Low inherent productivity indicates that the soil has one or more features that are unfavorable for crop production. Low yields and high risk of crop failure can be expected.

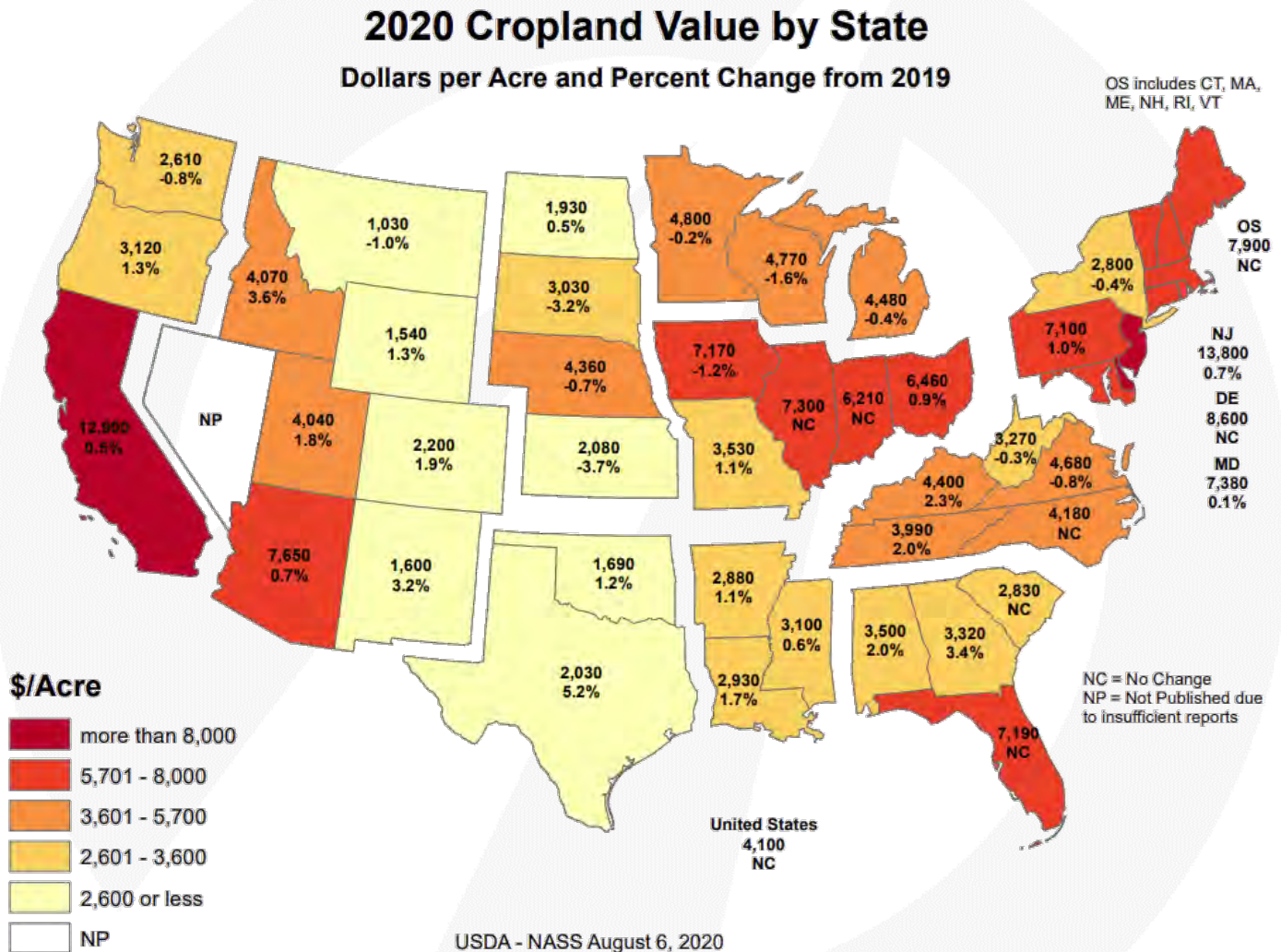
The weighted average soil productivity for the general area was determined to be approximately 73.42. A numerical scale that corresponds to the indicated qualitative ratings above was not available for the NCCPI; however, the soil productivity for this area is higher than the middle of the range, aligning with the “moderately high inherent productivity” category. According to the qualitative scale above, land with the moderately high inherent productivity classification is generally quite favorable for crop production.

⁶ Quantitative ratings are also show in ranges of 0.00 to 1.00. AgriData Inc. presents the NCCPI index rating multiplied by 100 in a range of 0.00 to 100.00 to show up to four significant figures.

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AREA VALUE TRENDS - CROPLAND

Agricultural land values are heavily influenced by relative crop production yields. The following exhibit compiled by the USDA National Agricultural Statistics Service (NASS) provides an illustration of how regional conditions such as weather conditions, geographies, and soil conditions can affect farm real estate values.



Per the NASS report, the average value of cropland in Kentucky for 2020 is \$4,400 per acre, which is an increase of 2.3 percent from 2019. In addition, the report indicated that the average annual growth rate for farmland values in Kentucky from 2016 to 2020 was 2.59 percent.⁷

⁷ https://www.nass.usda.gov/Publications/Todays_Reports/reports/land0820.pdf

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AREA VALUE TRENDS – RESIDENTIAL HOMES

The Project is in eastern Breckenridge County and western Meade County, Kentucky. There is a mixture of single family home types in the area, with the older homes being built as late as 1900, or as recently as 2010. Based on research from Zillow, price points can vary from \$20 per square foot to \$250 per square foot of rentable area. To better understand the market, we interviewed experienced residential appraisers in the area.

According to the appraisers we interviewed, eastern Breckenridge County and western Meade County have three sectors to its residential market:

- Low-density, rural single family homes
- Farming homes
- Lake Breckinridge vacation homes

The low-density, rural single-family homes make up the majority of the property types in eastern Breckinridge County and western Meade County. These homes are typically brick ranch homes that were built in the 1950s, 1960s, and 1970s. The homes that were built earlier than 1950 typically did not “survive.” Many of these homes are inhabited by families who have lived in Breckenridge, or at a specific address, for several generations.

The farming homes make up the rest of the population near the subject property. These homes are typically on lots of land greater than 100 acres. A large part of the farmers in the area are livestock farmers with large cattle ranches. There are many chicken farms in the area as well, as Perdue Farms has a large presence in Breckinridge County. Other farms yield products that include grain, soy beans, and corn.

The third part of the market represents newly built homes near Lake Breckinridge that are typically much larger in size than the rest of the homes in the county. The buyers of these homes are of a younger demographic that are often build these homes from the ground up. According to the appraisers in the area, these homes are outliers compared to the rest of the single-family homes in the market.

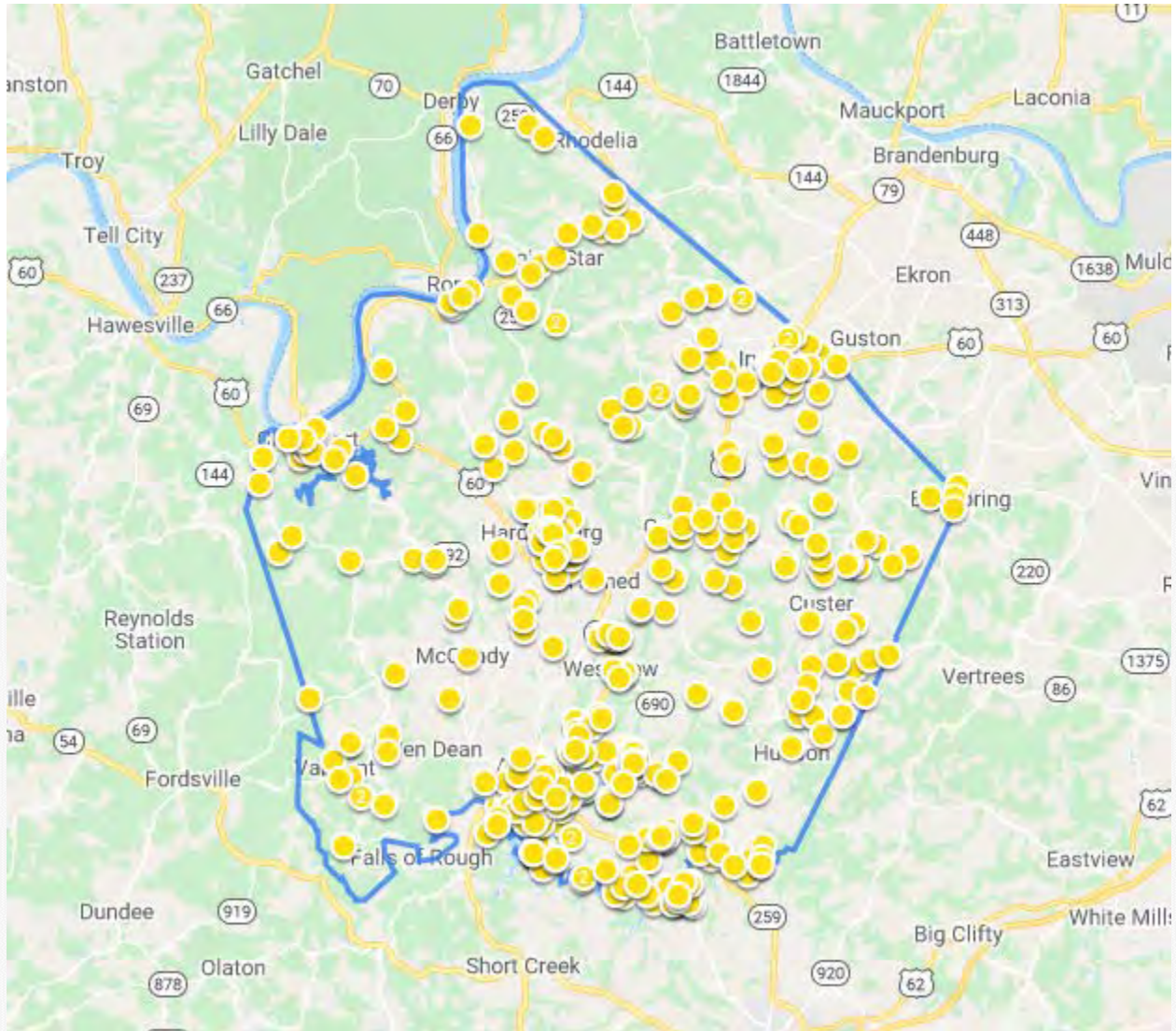
Much of the population in eastern Breckinridge and western Meade County are families that have lived in the area for many generations. Homes are often transferred in non-arms length transactions, making it difficult to identify a pattern of sale prices in the area. However, the appraisers consider this market to be stable. The appraisers stressed that this is a very rural area, where many of the homes do not have access to internet. Recently, Dr. Nick Carter, Superintendent of the Breckinridge County High School, announced that education would return to in-person instruction, as many students did not have access to internet.

There has been steady sale activity in both Breckenridge County and Meade County throughout 2020. Much of the demand for the homes in Meade County are driven by Meade County’s proximity to Louisville and to Fort Knox. Both Humana Inc. and Norton Hospital Behavioral in Louisville have employment of ±10,000 each, and are top 2nd and 3rd in the state, respectively.

To illustrate the sale activity in these counties, we presented images of closed sales from Zillow. We note again that these transactions represent sales from all three of the aforementioned market sectors, with several sales being non-arm’s length transactions.

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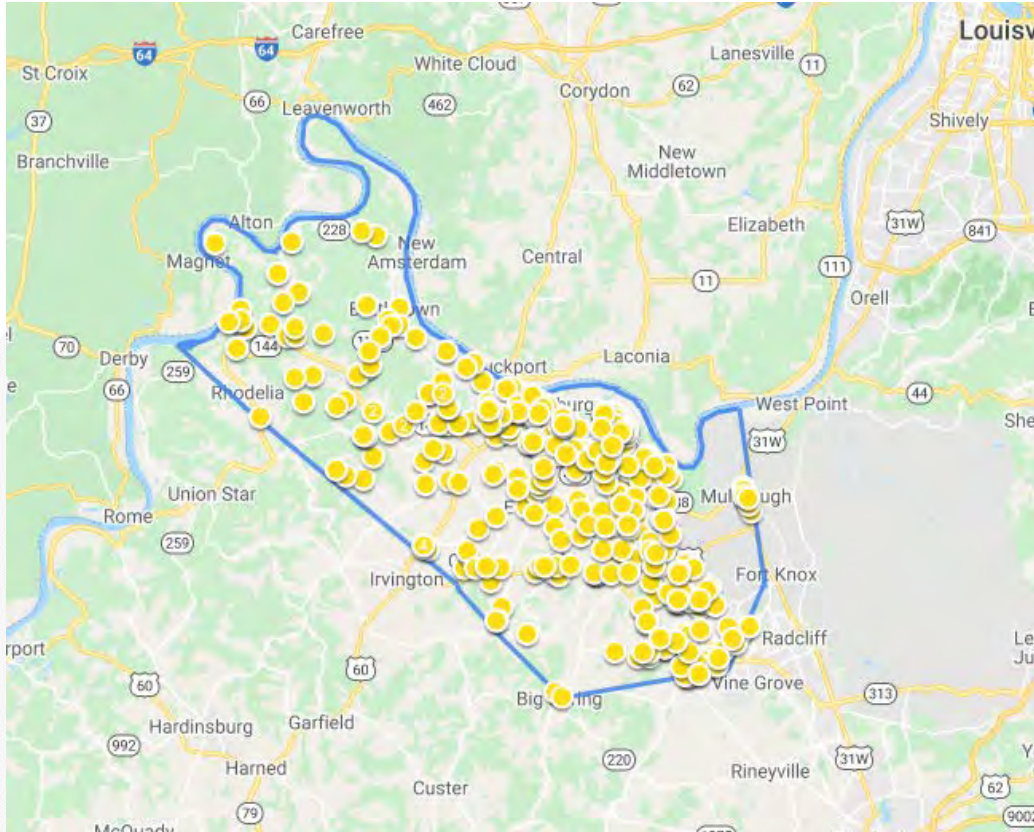
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Map of sales activity in Breckenridge County from Zillow.com

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Map of sales activity in Meade County from Zillow.com

According to the appraisers that we interviewed, the area in which the Project is located is an ideal area for a solar farm, as there are not many homes located in eastern Breckenridge County or in western Meade County. These areas consist of rural, low-density, single-family homes or homes located on farms of 100 or more acres.

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In a three- to five-mile radius of the Project there has not been much sale activity given the rural nature of the local area; however, the chart below illustrates residential home value trends for the Project's Breckenridge County and Meade County location. The source is the Federal Housing Finance Agency's (FHFA) House Price Index (HPI), which is a weighted, repeat-sales index measuring changes in single-family house prices.

FHFA House Price Index (HPI) Breckenridge County			FHFA House Price Index (HPI) Meade County		
Year	Annual Change (%)	HPI	Year	Annual Change (%)	HPI
2002	.	100.00	2002	.	157.12
2003	3.98%	103.98	2003	2.80%	161.52
2004	4.30%	108.45	2004	4.57%	168.90
2005	-1.38%	106.96	2005	4.50%	176.50
2006	4.37%	111.63	2006	4.11%	183.75
2007	5.70%	117.99	2007	6.96%	196.54
2008	1.63%	119.92	2008	1.93%	200.33
2009	-2.96%	116.37	2009	-1.54%	197.24
2010	-0.92%	115.31	2010	-1.01%	195.25
2011	2.24%	117.89	2011	1.19%	197.57
2012	-2.83%	114.55	2012	0.28%	198.13
2013	1.87%	116.69	2013	-1.80%	194.56
2014	2.83%	120.00	2014	3.72%	201.80
2015	4.26%	125.12	2015	-0.59%	200.60
2016	-3.84%	120.31	2016	2.37%	205.36
2017	16.39%	140.03	2017	3.91%	213.39
2018	-8.17%	128.59	2018	5.65%	225.44
2019	8.02%	138.91	2019	5.33%	237.47
Average	1.99%	117.93	Average	2.49%	195.08

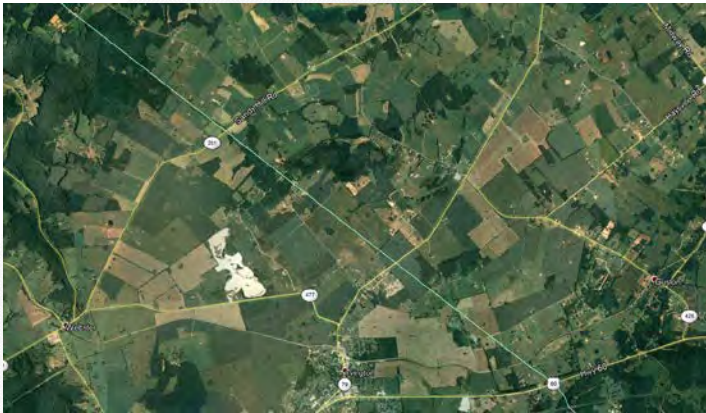
Based on the data shown above, the trend in residential home values in Breckenridge County have steadily increased at a 1.99% annual rate, while homes in Meade County increased by 2.49% annually. While Breckenridge County saw a -8.17% annual change in 2018, the County almost fully recovered in 2019. Meade County has been increasing since 2016. Both counties are considered to be stable.

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LOCAL LAND DEVELOPMENT TRENDS

Land values can be driven by a site's proximity to the path of development. The closer a property is to the path of development, and without natural barriers to development, the more value a property may have in the future. Eastern Breckenridge County and Western Meade County are very rural in nature. Breckenridge County has a population of only 20,388 people or about 35 people per square mile. Meade County is more dense, with 28,715 people or 94 people per square mile. However, much of Meade County's population is located on the eastern side, with the western side being less dense and more rural. It is assumed that the Project has a future land use consistent with its current use as agricultural land.



Aerial Imagery dated October 2008



Aerial Imagery dated October 2018

According to the images above, there has not been much development in the local area between October 2008 and October 2018 (the latest available aerial image). Generally, any undeveloped agricultural land is considered to be an interim use as the intensity of uses grows in step with macroeconomic factors; however, the Project and the land surrounding are not in the path of development in the foreseeable future and a change in use is not expected.

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SUMMARY AND FINAL CONCLUSIONS

The Project is located in a stable area that is predominantly agricultural in nature with some residential homesteads. Local development has not been robust over the past twenty years, and the surrounding land parcels are not expected to change from agricultural uses. Based on our analysis of real estate taxes in the Primary Report, solar farm uses incur anywhere from 131% to $\pm 1,000\%$ increase in real estate tax revenue for the local area, feeding back into essential services and schools. Local land and residential home prices have remained stable over the past five years and are anticipated to align in the future with macroeconomic changes. Overall, the proposed Project is considered a locally compatible use.

We have reviewed published methodology for measuring impact on property values as well as published studies that analyzed the impact of solar farms on property values. These studies found little to no measurable and consistent difference between the Test Area Sales and the Control Area Sales attributed to the solar farms. Specifically, in a 2017 study conducted by Chisago County Assessor John Keefe, Keefe analyzed the numbers for 15 parcels alongside or near the North Star Solar Farm that sold between January 2016 and October 2017. Based on trends exhibited by 750+ sales throughout the county, Keefe concluded that the homes, located on 375th, 367th, Keystone, Little Oak, Lincoln Trail, and Kost Trail were all “in excess of assessed” and reported that “valuation hasn’t suffered.”⁸

We have also interviewed market participants, including County and Township Assessors, to give us additional insight as to how the market evaluates farmland and single-family homes with views of the solar farm. These local real estate assessors who have at least one solar farm in their jurisdiction have determined that property adjacent to solar farms have not affected adjacent property values. The McNairy County, Tennessee Assessor, Brandon Moore, stated that his department has not applied reductions to assessed value for adjacency to Solar Farms.

Grant County, Kentucky Property Value Administrator, Elliott Anderson, told us that Duke Energy built a 2.7 MW solar farm near Crittenden, adjacent to existing homes on Claiborne Drive in December 2017. There have been nine arm’s length homes sales on that street since the solar farm came online, due to normal market conditions. Each of those nine homes sold higher than its Assessed Value, one over 32 percent higher. The Assessed Values in Grant County are based on 100 percent Fair Market Values as determined by the Property Value Administrator’s office. Anderson noted that several more lots are for sale by the developer and four more homes are currently under construction, set to deliver in 2021. Anderson said that the solar farm had no impact either on adjoining home values or on marketability or desirability of those homes adjacent to the solar farm. Anderson added, the homes sold at market prices in a market that has been experiencing a boom since at least mid-2019.

Based upon our examination, research, and analyses of the existing solar farm uses, the surrounding areas, and an extensive market database, we have concluded that no consistent negative impact has occurred to adjacent property that could be attributed to proximity to the adjacent solar farm, with regard to unit sale prices or other influential market indicators. Additionally, in our workfile we have retained analyses of additional Test Area subjects, each with their own set of matched Control Area sales, which had consistent results, indicating no consistent and measurable impact on adjacent property values. This conclusion has been

⁸ <https://www.cleanenergyresourceteams.org/chisago-county-boards-real-estate-update-shows-solar-has-no-impact-property-values>

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confirmed by numerous county assessors who have also investigated this use's potential impact on property values.

We then can conclude that since the Adjoining Property Sales (Test Area Sales) were not adversely affected by their proximity to the solar farm, that properties surrounding the proposed solar farm Project operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short or long term periods.

If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

CohnReznick LLP



Andrew R. Lines, MAI
Principal- Valuation Advisory Services
Certified General Real Estate Appraiser

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Expires 6/30/2021
Florida License No. RZ3899
Expires 11/30/2020
Indiana License No. CG41500037
Expires 6/30/2022
Georgia License No. 360939
Expires 10/31/2021



Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services
Certified General Real Estate Appraiser

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CERTIFICATION

We certify that, to the best of our knowledge and belief:

1. The statements of fact and data reported are true and correct.
2. The reported analyses, findings, and conclusions in this consulting report are limited only by the reported assumptions and limiting conditions, and are our personal, impartial, and unbiased professional analyses, findings, and conclusions.
3. We have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
4. We have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
5. We have no bias with respect to the property that is the subject of this report or the parties involved with this assignment.
6. Our engagement in this assignment was not contingent upon developing or reporting predetermined results.
7. Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value finding, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this report.
8. Our analyses, findings, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute, which includes the Uniform Standards of Professional Appraisal Practice (USPAP).
9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives.
10. Patricia L. McGarr, MAI, CRE, FRICS and Andrew R. Lines, MAI have viewed the exterior of the Project and of all comparable data referenced in this report in person, via photographs, or aerial imagery.
11. We have not relied on unsupported conclusions relating to characteristics such as race, color, religion, national origin, gender, marital status, familial status, age, and receipt of public assistance income, handicap, or an unsupported conclusion that homogeneity of such characteristics is necessary to maximize value.
12. Sonia K. Singh, MAI, Michael F. Antypas, Amanda G. Edwards, TJ Schemmel, Connor H. Martin and Malaika Martin provided consulting assistance to the persons signing this certification, including data verification, research, and administrative work all under the appropriate supervision.
13. We have experience in reviewing properties similar to the subject and are in compliance with the Competency Rule of USPAP.
14. As of the date of this report, Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have completed the continuing education program for Designated Members of the Appraisal Institute.

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Respectfully submitted,

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Andrew R. Lines, MAI
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ASSUMPTIONS AND LIMITING CONDITIONS

The fact witness services will be subject to the following assumptions and limiting conditions:

1. No responsibility is assumed for the legal description provided or for matter pertaining to legal or title considerations. Title to the property is assumed to be good and marketable unless otherwise stated. The legal description used in this report is assumed to be correct.
2. The property is evaluated free and clear of any or all liens or encumbrances unless otherwise stated.
3. Responsible ownership and competent management are assumed.
4. Information furnished by others is believed to be true, correct and reliable, but no warranty is given for its accuracy.
5. All engineering studies are assumed to be correct. The plot plans and illustrative material in this report are included only to help the reader visualize the property.
6. It is assumed that there are no hidden or unapparent conditions of the property, subsoil, or structures that render it more or less valuable. No responsibility is assumed for such conditions or for obtaining the engineering studies that may be required to discover them.
7. It is assumed that the property is in full compliance with all applicable federal, state, and local and environmental regulations and laws unless the lack of compliance is stated, described, and considered in the evaluation report.
8. It is assumed that the property conforms to all applicable zoning and use regulations and restrictions unless nonconformity has been identified, described and considered in the evaluation report.
9. It is assumed that all required licenses, certificates of occupancy, consents, and other legislative or administrative authority from any local, state, or national government or private entity or organization have been or can be obtained or renewed for any use on which the value estimate contained in this report is based.
10. It is assumed that the use of the land and improvements is confined within the boundaries or property lines of the property described and that there is no encroachment or trespass unless noted in this report.
11. The date of value to which the findings are expressed in this report apply is set forth in the letter of transmittal. The appraisers assume no responsibility for economic or physical factors occurring at some later date which may affect the opinions herein stated.
12. Unless otherwise stated in this report, the existence of hazardous materials, which may or may not be present on the property, was not observed by the appraisers. The appraisers have no knowledge of the existence of such substances on or in the property. The appraisers, however, are not qualified to detect such substances. The presence of substances such as asbestos, urea-formaldehyde foam insulation, radon gas, lead or lead-based products, toxic waste contaminants, and other potentially hazardous materials may affect the value of the property. The value estimate is predicated on the assumption that there is no such material on or in the property that would cause a loss in value. No responsibility is assumed for such conditions or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

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13. The forecasts, projections, or operating estimates included in this report were utilized to assist in the evaluation process and are based on reasonable estimates of market conditions, anticipated supply and demand, and the state of the economy. Therefore, the projections are subject to changes in future conditions that cannot be accurately predicated by the appraisers and which could affect the future income or value projections.
14. Fundamental to the appraisal analysis is the assumption that no change in zoning is either proposed or imminent, unless otherwise stipulated. Should a change in zoning status occur from the property's present classification, the appraisers reserve the right to alter or amend the value accordingly.
15. It is assumed that the property does not contain within its confined any unmarked burial grounds which would prevent or hamper the development process.
16. The Americans with Disabilities Act (ADA) became effective on January 26, 1992. We have not made a specific compliance survey and analysis of the property to determine if it is in conformance with the various detailed requirements of the ADA. It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA, could reveal that the property is not in compliance with one or more of the requirements of the Act. If so, this fact could have a negative effect on the value of the property. Unless otherwise noted in this report, we have not been provided with a compliance survey of the property. Any information regarding compliance surveys or estimates of costs to conform to the requirements of the ADA are provided for information purposes. No responsibility is assumed for the accuracy or completeness of the compliance survey cited in this report, or for the eventual cost to comply with the requirements of the ADA.
17. Any value estimates provided in this report apply to the entire property, and any proration or division of the total into fractional interests will invalidate the value estimate, unless such proration or division of interests has been set forth in this report.
18. Any proposed improvements are assumed to have been completed unless otherwise stipulated; any construction is assumed to conform with the building plans referenced in this report.
19. Unless otherwise noted in the body of this report, this evaluation assumes that the subject does not fall within the areas where mandatory flood insurance is effective.
20. Unless otherwise noted in the body of this report, we have not completed nor are we contracted to have completed an investigation to identify and/or quantify the presence of non-tidal wetland conditions on the subject property.
21. This report should not be used as a basis to determine the structural adequacy/inadequacy of the property described herein, but for evaluation purposes only.
22. It is assumed that the subject structure meets the applicable building codes for its respective jurisdiction. We assume no responsibility/liability for the inclusion/exclusion of any structural component item which may have an impact on value. It is further assumed that the subject property will meet code requirements as they relate to proper soil compaction, grading, and drainage.
23. The appraisers are not engineers, and any references to physical property characteristics in terms of quality, condition, cost, suitability, soil conditions, flood risk, obsolescence, etc., are strictly related to their economic impact on the property. No liability is assumed for any engineering-related issues.

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The evaluation services will be subject to the following limiting conditions:

1. The findings reported herein are only applicable to the properties studied in conjunction with the Purpose of the Evaluation and the Function of the Evaluation as herein set forth; the evaluation is not to be used for any other purposes or functions.
2. Any allocation of the total value estimated in this report between the land and the improvements applies only to the stated program of utilization. The separate values allocated to the land and buildings must not be used in conjunction with any other appraisal and are not valid if so used.
3. No opinion is expressed as to the value of subsurface oil, gas or mineral rights, if any, and we have assumed that the property is not subject to surface entry for the exploration or removal of such materials, unless otherwise noted in the evaluation.
4. This report has been prepared by CohnReznick under the terms and conditions outlined by the enclosed engagement letter. Therefore, the contents of this report and the use of this report are governed by the client confidentiality rules of the Appraisal Institute. Specifically, this report is not for use by a third party and CohnReznick is not responsible or liable, legally or otherwise, to other parties using this report unless agreed to in writing, in advance, by both CohnReznick and/or the client or third party.
5. Disclosure of the contents of this evaluation report is governed by the by-laws and Regulations of the Appraisal Institute has been prepared to conform with the reporting standards of any concerned government agencies.
6. The forecasts, projections, and/or operating estimates contained herein are based on current market conditions, anticipated short-term supply and demand factors, and a continued stable economy. These forecasts are, therefore, subject to changes with future conditions. This evaluation is based on the condition of local and national economies, purchasing power of money, and financing rates prevailing at the effective date of value.
7. This evaluation shall be considered only in its entirety, and no part of this evaluation shall be utilized separately or out of context. Any separation of the signature pages from the balance of the evaluation report invalidates the conclusions established herein.
8. **Possession of this report, or a copy thereof, does not carry with it the right of publication, nor may it be used for any purposes by anyone other than the client without the prior written consent of the appraisers, and in any event, only with property qualification.**
9. The appraisers, by reason of this study, are not required to give further consultation or testimony or to be in attendance in court with reference to the property in question unless arrangements have been previously made.

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10. Neither all nor any part of the contents of this report shall be conveyed to any person or entity, other than the appraiser's client, through advertising, solicitation materials, public relations, news, sales or other media, without the written consent and approval of the authors, particularly as to evaluation conclusions, the identity of the appraisers or CohnReznick, LLC, or any reference to the Appraisal Institute, or the MAI designation. Further, the appraisers and CohnReznick, LLC assume no obligation, liability, or accountability to any third party. If this report is placed in the hands of anyone but the client, client shall make such party aware of all the assumptions and limiting conditions of the assignment.
11. This evaluation is not intended to be used, and may not be used, on behalf of or in connection with a real estate syndicate or syndicates. A real estate syndicate means a general or limited partnership, joint venture, unincorporated association or similar organization formed for the purpose of, and engaged in, an investment or gain from an interest in real property, including, but not limited to a sale or exchange, trade or development of such real property, on behalf of others, or which is required to be registered with the United States Securities and Exchange commissions or any state regulatory agency which regulates investments made as a public offering. It is agreed that any user of this evaluation who uses it contrary to the prohibitions in this section indemnifies the appraisers and the appraisers' firm and holds them harmless from all claims, including attorney fees, arising from said use.

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ADDENDUM A: APPRAISER QUALIFICATIONS

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Patricia L. McGarr, MAI, CRE, FRICS, CRA, is a principal and National Director of CohnReznick Advisory Group's Valuation Advisory Services practice who is based in Chicago. Pat's experience includes market value appraisals of varied property types for acquisition, condemnation, mortgage, estate, ad valorem tax, litigation, zoning, and other purposes. Pat has been involved in the real estate business since 1980. From June 1980 to January 1984, she was involved with the sales and brokerage of residential and commercial properties. Her responsibilities during this time included the formation, management, and training of sales staff in addition to her sales, marketing, and analytical functions. Of special note was her development of a commercial division for a major Chicago-area brokerage firm.

Since January 1984, Pat has been exclusively involved in the valuation of real estate. Her experience includes the valuation of a wide variety of property types including residential, commercial, industrial, and special purpose properties including such diverse subjects as quarries, marinas, riverboat gaming sites, shopping centers, manufacturing plants, and office buildings. She is also experienced in the valuation of leasehold and leased fee interests. Pat has performed appraisal assignments throughout Illinois and the Chicago Metropolitan area as well as Wisconsin, Indiana, Michigan, New York, New Jersey, California, Nevada, Florida, Utah, Texas, and Ohio. Pat has gained substantial experience in the study and analysis of the establishment and expansion of sanitary landfills in various metropolitan areas including the preparation of real estate impact studies to address criteria required by Senate Bill 172. She has also developed an accepted format for allocating value of a landfill operation between real property, landfill improvements, and franchise (permits) value.

Over the past several years, Pat has developed a valuation group that specializes in serving utility companies establish new utility corridors for electric power transmission and pipelines. This includes determining acquisition budgets, easement acquisitions, and litigation support. Pat has considerable experience in performing valuation impact studies on potential detrimental conditions and has studied properties adjoining landfills, waste transfer stations, stone quarries, cellular towers, schools, electrical power transmission lines, "Big Box" retail facilities, levies, properties with restrictive covenants, landmark districts, environmental contamination, airports, material defects in construction, stigma, and loss of view amenity for residential high rises.

Pat has qualified as an expert valuation witness in numerous local, state and federal courts.

Pat has participated in specialized real estate appraisal education and has completed more than 50 courses and seminars offered by the Appraisal Institute totaling more than 600 classroom hours, including real estate transaction courses as a prerequisite to obtaining a State of Illinois Real Estate Salesman License.

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Pat has earned the professional designations of Counselors of Real Estate (CRE), Member of the Appraisal Institute (MAI), Fellow of Royal Institution of Chartered Surveyors (FRICS) and Certified Review Appraiser (CRA). She is also a certified general real estate appraiser with active licenses in numerous states.

Education

- North Park University: Bachelor of Science, General Studies

Professional Affiliations

- National Association of Realtors
- CREW Commercial Real Estate Executive Women
- IRWA International Right of Way Association

Appointments

Appointed by the Governor in 2017 to the State of Illinois' Department of Financial & Professional Regulation's Real Estate Appraisal Board; Vice-Chairman - 2018

Licenses and Accreditations

- Member of the Appraisal Institute (MAI)
- Counselors of Real Estate, designated CRE
- Fellow of Royal Institution of Chartered Surveyors (FRICS)
- Certified Review Appraiser (CRA)
- Alabama State Certified General Real Estate Appraiser
- California State Certified General Real Estate Appraiser
- Connecticut State Certified General Real Estate Appraiser
- District of Columbia State Certified General Real Estate Appraiser
- Illinois State Certified General Real Estate Appraiser
- Indiana State Certified General Real Estate Appraiser
- Louisiana State Certified General Real Estate Appraiser
- Maryland State Certified General Real Estate Appraiser
- Massachusetts State Certified General Real Estate Appraiser
- Michigan State Certified General Real Estate Appraiser
- Nevada State Certified General Real Estate Appraiser
- New Jersey State Certified General Real Estate Appraiser
- New York State Certified General Real Estate Appraiser
- North Carolina State Certified General Real Estate Appraiser
- Indiana State Certified General Real Estate Appraiser
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Andrew R. Lines, MAI, is a principal in the CohnReznick Transaction and Turnaround Advisory Valuation Advisory practice who is based in the Chicago office and has been a CohnReznick employee for over nine years. Andrew has been involved in the real estate business for more than 20 years and has performed valuations on a wide variety of real property types including single- and multi-unit residential (including LIHTC), student housing, office, retail, industrial, mixed-use and special purpose properties including landfills, waste transfer stations, marinas, hospitals, universities, telecommunications facilities, data centers, self-storage facilities, racetracks, CCRCs, and railroad corridors. He is also experienced in the valuation of leasehold, leased fee, and partial interests, as well as purchase price allocations (GAAP, IFRS and IRC 1060) for financial reporting.

Andrew has completed valuations nationwide for a variety of assignments including mortgage financing, litigation, tax appeal, estate gifts, asset management, workouts, and restructuring, as well as valuation for financial reporting including purchase price allocations (ASC 805), impairment studies, and appraisals for investment company guidelines and REIS standards. Andrew has qualified as an expert witness, providing testimony for eminent domain cases in the states of IL and MD. Andrew has also performed appraisal review assignments for accounting purposes (audit support), asset management, litigation and as an evaluator for a large Midwest regional bank.

Andrew has earned the professional designation of Member of the Appraisal Institute (MAI). He has also qualified for certified general commercial real estate appraiser licenses in Arizona, California, Maryland, Florida, Georgia, Illinois, Indiana, New Jersey and New York. Temporary licenses have been granted in Connecticut, Colorado, Ohio, Indiana, Idaho, Kansas, Minnesota and South Carolina.

Education

- Syracuse University: Bachelor of Fine Arts

Professional Affiliations

- Chicago Chapter of the Appraisal Institute - Alternate Regional Representative (2016 – 2018)
- International Real Estate Management (IREM)
- National Council of Real Estate Investment Fiduciaries (NCREIF)

Community Involvement

- Fellows Alumni Network - World Business Chicago, Founding member
- Syracuse University Regional Council – Active Member

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Sonia K. Singh, MAI

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Sonia K. Singh, MAI is a senior manager in CohnReznick Advisory Group's Valuation Advisory practice and based in the Bethesda office. For the past eight years, she has engaged in real estate valuation and other real estate consulting services and valued over \$5 billion in real property.

Sonia is adept at valuing a variety of commercial real estate across the United States, including the following complex property types: athletic clubs; full-service hotels and beach resorts; marinas; historic redevelopment projects; recycling facilities; single-family rental home portfolios; master planned communities; and for-sale residential units or subdivisions. She has also performed real estate appraisals involving leasehold interests, air rights ownership, and right-of-way fee simple and easement acquisitions for utility corridors. She has performed these and other appraisals others for purposes including financial reporting, estate planning, gift and estate tax, bond and conventional financing, litigation (eminent domain), and asset management, with the ability to handle appraisals of large portfolios in expedited timeframes. With significant experience in the appraisal of senior living facilities including continuing care retirement communities, skilled nursing facilities, assisted living and memory care facilities, as well as age-restricted housing, Ms. Singh has elevated the firm's modelling of complex healthcare property ownership structures to help illuminate debt/income and lease coverage ratios for federal courts, resulting in millions of dollars in recovered credits for clients.

Additionally, Sonia is experienced in purchase price allocations (GAAP, IFRS, and IRC 1060) for financial reporting, including the early adoption of ASU 2017-01. She has also provided valuation services related to highest and best use analysis, market feasibility studies, and useful life analysis. She has prepared impact studies measuring the possible detrimental impact of economic and environmental influences on property values, including those related to high-voltage transmission lines, distribution warehouses, and solar farms. She has provided expert witness testimony at local county zoning hearings for proposed solar energy uses and their potential detrimental impacts on adjacent property values.

Education

- University of Illinois: Bachelor of Science, Actuarial Science

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Adjacent Property Value Impact Study Addendum Report: Proposed Green River Solar Project Page | 34

Professional Affiliation, Licenses, and Exams

- MAI - Appraisal Institute, Designated Member
- Urban Land Institute, Associate Member
- Certified General Real Estate Appraiser with Active Licenses in DC and the States of MD, MO, and VA
- Successful completion of the following actuarial exams: Probability (1/P), Financial Mathematics (2/FM), and Models for Financial Economics (3/MFE)

Awards and Recognitions

- 2019 National Association of Certified Valuers and Analysts (NACVA) and the Consultants Training Institute (CTI) 40 Under Forty Honoree

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PROPERTY VALUE IMPACT STUDY

IMPACT STUDY OF PROPERTY VALUES ADJACENT TO SOLAR USES A STUDY OF TEN EXISTING SOLAR FACILITIES

Located in Chisago County, Minnesota; Marion County, Indiana; Dougherty County, Georgia; Miami-Dade County, Florida; Brevard County, Florida; Bladen and Cumberland Counties, North Carolina; Rutherford County, North Carolina; Wilson County, North Carolina; Isle of Wight County, Virginia, and Lapeer County, Michigan

PREPARED FOR:

Ms. Lina Jensen
Project Director
Green River Solar, LLC

SUBMITTED BY:

CohnReznick, LLP
Valuation Advisory Services
200 S Wacker Drive, Suite 2600
Chicago, IL 60606
(312) 508-5900

April 9, 2021

Andrew R. Lines, MAI
Patricia L. McGarr, MAI, CRE, FRICS

EXECUTIVE SUMMARY

Green River Solar, LLC, in association with NextEra Energy Resources, is seeking approvals for a proposed solar farm to be located in the State of Kentucky.

CohnReznick has been engaged to complete a property value impact study to determine whether existing solar farms have had any measurable impact on the value of adjacent properties. This report summarizes the findings of that study.

The purpose of the assignment is to determine whether proximity to an existing solar farm resulted in any significant measurable and consistent impact on adjacent property values, given the existing uses and zoning of nearby property at the time of development; address potential local concerns regarding any proposed solar farm having a perceived impact on surrounding property values; and, provide a consulting report that can address the required criteria for obtaining approvals for future NextEra Energy Resources projects.

We have included ten established solar farms in our study, focusing on rural and suburban areas with neighboring residential homes, that are comparable to the proposed solar farm locations in Kentucky. Solar farms with a variety of output capacities have been studied because of their proximity to residential properties. We have studied the sales of property located adjacent to the solar farms in order to see if proximity to this use results in any consistent and measurable impact on property values.

Since 1984, we have studied the impacts on adjacent land values of schools, landfills, waste transfer stations, stone quarries, cellular towers, electrical power transmission lines, “Big Box” retail facilities, levies, properties with restrictive covenants, landmark districts, environmental contamination, airports, material defects in construction, stigma, and loss of view amenity for residential high rises. Over the past three years, we have studied more than 25 existing solar farms across the United States of varying sizes to determine whether there has been any measurable impact on adjacent property values.

METHODOLOGY

The basic premise of this comparative analysis is that if there is any impact on the value of adjacent properties, by virtue of their proximity to a solar farm, it would be reflected by such factors as the range of sale prices, differences in unit sale prices, conditions of sale, and overall marketability. When comparing these factors for properties near the solar farm (“Test Area Sales”) to properties locationally removed from the solar farm (“Control Area Sales”), we would expect to see some emerging and consistent pattern of substantial difference in these comparative elements – if, in fact, there was an effect.

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STUDY FEATURES

Our study includes research and analyses of existing solar farms in the Midwest Southeast, and East, (collectively, the “Existing Solar Farms”), as well as the property value trends of the adjacent land uses, including agricultural, single family and residential properties; a review of published studies, and discussions with market participants. Adjoining properties physically adjacent to the Existing Solar Farms that sold in an arm’s length transaction after the completion of the Existing Solar Farms were categorized as Test Area Sales that qualified for further analysis in a paired sale analysis to determine if a difference in price exists.

- Solar Farm 1 (North Star Solar Farm) is located near the City of North Branch, in unincorporated Chisago County, Minnesota. This is a 100 MW AC solar farm that is situated on approximately 1,000 acres of land and is surrounded by agricultural land uses and some residential uses. We found four adjoining properties that qualified for a paired sales analysis.
- Solar Farm 2 (Dominion Indy Solar Farm III) is located in a suburban, yet rural area outside of Indianapolis, in Marion County, Indiana, on a parcel totaling 134 acres. The solar farm has a capacity of 8.6 MW AC of power and the surrounding uses consist of agricultural land to the east, west and south, and a single-family subdivision to the north. We found ten adjoining properties that qualified for a paired sales analysis, two of which have resold for a total of twelve sales.
- Solar Farm 3 (Dougherty Solar) is located in a rural area outside of the nearest city, Albany, in Dougherty County, Georgia, on three parcels totaling over 1,000 acres. The solar farm has a capacity of 120 MW AC of power and the surrounding uses consist of agricultural land to the east, west and north, and single-family homes to the south and the northeast. We found one adjoining property that qualified for a paired sales analysis.
- Solar Farm 4 (Miami-Dade Solar Energy Center) is located in unincorporated Miami-Dade County, Florida on 465 acres. The solar farm has a capacity of 74.5 MW AC and the surrounding uses consists of agricultural land, single family homes, and federally owned government land. We found three adjoining properties that qualify for a paired sales analysis.
- Solar Farm 5 (Barefoot Bay Solar Energy Center) is located near the city of Sebastian, in unincorporated Brevard County, Florida on 504.75 acres. The solar farm has a capacity of 74.5 MW AC and the surrounding uses consists of some industrial, agricultural land, single family homes, and municipal land. We found seven adjoining properties that qualify for a paired sales analysis.
- Solar Farm 6 (Innovative Solar 42) is located near the City of Fayetteville in Bladen and Cumberland Counties, North Carolina on 414 acres. The solar farm has a capacity of 71 MW AC of power and the surrounding uses consist of agricultural land, forests, and single family homes. We found one adjoining property that qualified for a paired sales analysis.

- Solar Farm 7 (Rutherford Solar Farm) is located near the city of Forest City in Rutherford County, North Carolina in a primarily rural area, on a 489-acre parcel of land. The solar farm has a capacity of 61 MW AC of power and the surrounding uses consist of agricultural land, vacant land, and single family homes. We found two adjoining properties that qualified for a paired sales analysis.
- Solar Farm 8 (Elm City Solar Facility) is located in the City of Elm City in Wilson County, North Carolina, in a primarily rural area, on 354 acres. The solar farm has a capacity of 40 MW AC of power and the surrounding uses consist of forest, industrial, vacant, and single family homes. We found one adjoining property that qualified for a paired sales analysis.
- Solar Farm 9 (Woodland Solar Farm) is located near the City of Windsor in unincorporated Isle of Wight County, Virginia, in a primarily rural area, on 204 acres. The solar farm has a capacity of 19 MW AC of power and the surrounding uses consist of agricultural land, forest land, and single family homes. We found one adjoining property that qualified for a paired sales analysis.
- Solar Farm 10 (DTE's Lapeer Michigan Solar Projects) is a two-farm project, the Demille Solar Farm and the Turrill Solar Farm, located in the City of Lapeer, Michigan. Demille is a 28.56 MW AC solar farm that is situated on approximately 170 acres of land and is surrounded by agricultural land uses and residential uses. Turrill is a 19.72 MW AC solar farm situated on approximately 200 acres. We found four adjoining properties that qualified for a paired sales analysis.

We analyzed 37 adjoining property sales in Test Areas and 238 comparable sales in Control Areas, collectively, for these identified solar facilities, over the past seven years.

RESULTS

With regard to their impact on nearby property values, our studies of facilities of various sizes demonstrate that there is no measurable and consistent difference in property values for properties adjacent to solar farms when compared to similar properties locationally removed from their influence. This is supported by our interviews with local real estate brokers who have stated that there is no difference in price, marketing periods or demand for the homes directly adjacent to the solar farm facilities.

We have also interviewed market participants, including County and Township Assessors (with solar facilities in their districts), to give us additional insight as to how the market evaluates farmland and single-family homes located adjacent to solar farms. Local assessors we have spoken with directly have noted that there is no evidence of negative property value impacts due to proximity to a solar farm, and local brokers interviewed have noted that there has been no effect on pricing, marketing time, nor conditions of sale.

We performed three Before and After Analyses, in which we compared sales that occurred prior to the announcement and subsequent development of the solar farm project with sales that occurred after completion of the solar farm project for one solar farm in Florida, one solar farm in Indiana, and one in Minnesota, for both adjoining and non-adjoining properties. No measurable impact on property values was demonstrated in these analyses.

We have also reviewed studies prepared by other real estate valuation experts that specifically analyzed the impact of solar facilities on nearby property values. These studies found little to no measurable or consistent difference in value between the Test Area Sales and the Control Area Sales attributed to the proximity to solar farms.

Considering all of this information, we can conclude that since the property values of the Adjoining Property Sales (Test Area Sales) for the existing solar farms analyzed were not adversely affected by their proximity to solar farms, that properties surrounding other solar farms operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short- or long-term.

LETTER OF TRANSMITTAL

April 9, 2021

Ms. Lina Jensen
 Project Director
 Green River, LLC

SUBJECT: Property Value Impact Study
 Real Estate Adjacent to Solar Farms

Dear Ms. Jensen:

CohnReznick is pleased to submit the accompanying adjacent property values impact study regarding proposed solar energy uses.

In developing this report, we have researched the identified existing solar farms listed below, researched articles and other published studies, and interviewed real estate professionals and Township/County Assessors active in the market where solar farms are located, to gain an understanding of market perceptions.

CohnReznick - Existing Solar Farms Studied					
#	Solar Farm	County	State	MW AC	Acreage
1	North Star Solar	Chisago	MN	100.00	±1,000
2	Indy Solar III	Marion	IN	8.60	129.04
3	Dougherty Solar	Dougherty	GA	120.00	1,037.42
4	Miami-Dade Solar Energy Center	Miami-Dade	FL	74.50	465.61
5	Barefoot Bay Solar Energy Center	Brevard	FL	74.50	504.75
6	Innovative Solar 42	Bladen & Cumberland	NC	71.00	413.99
7	Rutherford Farm	Rutherford	NC	61.00	488.84
8	Elm City Solar	Wilson	NC	40.00	354.00
9	Woodland Solar	Isle of Wight	VA	19.00	211.12
10	DTE Lapeer Solar	LaPeer	MI	48.28	365.68

The purpose of the assignment is to determine whether the proximity of the proposed renewable energy facility use (solar farm) will result in any significant measurable and consistent impact on adjacent property values, given the existing uses and zoning of nearby property at the time of development. The intended use of our opinions and conclusions is to assist the client in addressing local concerns regarding a solar farm’s potential impact on surrounding property values, in addition to addressing the required criteria for obtaining approvals for the proposed solar energy project by Green River, LLC, such as minimizing the impact on adjacent property values. We have not been asked to value any specific property, and we have not done so.

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The client and intended user for the assignment is Green River Solar, LLC, in care of NextEra Energy Resources. Additional intended users of our findings may include various county officials in the state of Kentucky and the Kentucky State Electric Generation and Transmission Siting Board. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP ("CohnReznick").

The assignment is intended to conform to the Uniform Standards of Professional Appraisal Practice (USPAP), the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute as well as applicable state appraisal regulations. Based on the analysis in the accompanying report, and subject to the definitions, assumptions, and limiting conditions expressed in the report, our findings follow below.

CONCLUSIONS

We analyzed 37 adjoining property sales and over 238 comparable sales, collectively, for the identified ten solar farms, over the past seven years. We note that proximity to the solar farms has not deterred sales of nearby agricultural land and residential single-family homes nor has it deterred the development of new single-family homes on adjacent land.

No empirical evidence evolved that indicated a more favorable real estate impact on the Control Area Sales as compared to the adjoining, Test Area Sales with regard to such market elements as:

1. Range of sale prices
2. Differences in unit sale prices
3. Conditions of sale
4. Overall marketability
5. New Development
6. Rate of Appreciation

We have also reviewed studies prepared by other real estate valuation experts that specifically analyzed the impact of solar facilities on nearby property values. These studies found little to no measurable and consistent difference in value attributed to the proximity to solar farms between unit prices for Test Area Sales and Control Area Sales and noted that solar energy uses are generally considered a compatible use. We have also interviewed market participants, including County and Township Assessors, to give us additional insight as to how the market evaluates farmland and single-family homes with views of the solar farm.

Considering all of this information, we can conclude that since the Adjoining Property Sales (Test Area Sales) for the existing solar farms analyzed were not adversely affected by their proximity to solar farms, that properties surrounding other solar farms operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short- or long-term periods.

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If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Very truly yours,

CohnReznick LLP



Andrew R. Lines, MAI
Principal- Valuation Advisory Services
Certified General Real Estate Appraiser

Florida License No. RZ3899
Expires 11/30/2022
Indiana License No. CG41500037
Expires 6/30/2022
Kentucky License 5663
Expires 6/30/2021
Georgia License No. 360939
Expires 10/31/2021



Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services
Certified General Real Estate Appraiser

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North Carolina License No. A8131
Expires 6/30/2021
Virginia License No. 4001016998
Expires 3/31/2022
Michigan License No. 1201072979
Expires 7/31/2022

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SCOPE OF WORK

CLIENT

The client for this assignment is Green River Solar, LLC, in care of NextEra Energy Resources.

INTENDED USERS

Green River Solar, LLC, in care of NextEra Energy Resources; other intended users may include the client's legal and site development professionals, various county officials in the state of Kentucky and the Kentucky State Electric Generation and Transmission Siting Board. Additional intended users of our findings include all relevant permitting authorities for proposed solar energy use sites in Kentucky.

INTENDED USE

The intended use of our findings and conclusions is to address certain criteria required for the granting of approvals for proposed solar energy uses in various location in the state of Kentucky, including the minimization of impact on nearby or adjacent property values. The report may be used only for the aforementioned purpose and may not be distributed without the written consent of CohnReznick LLP ("CohnReznick").

PURPOSE

The purpose of the assignment is to determine whether the proximity of the studied facilities (solar farms) resulted in any significant measurable and consistent impact on adjacent property values, given the existing uses and zoning of nearby property at the time of development; address local concerns regarding a solar farm use having a perceived impact on surrounding property values; and, provide a consulting report that can address criteria for obtaining approvals for the proposed solar project known as Green River Solar.

EFFECTIVE DATE

April 9, 2021

DATE OF REPORT

April 9, 2021

PRIOR SERVICES

USPAP requires appraisers to disclose to the client any services they have provided in connection with the subject property in the prior three years, including valuation, consulting, property management, brokerage, or any other services.

This report is a compilation of the Solar Farms which we have studied over the past three years and is not evaluating a specific subject site. In this instance, there is no "subject property" to disclose.

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INSPECTION

Patricia L. McGarr, MAI and Andrew R. Lines, MAI have viewed the exterior of all comparable data referenced in this report in person, via photographs, or aerial imagery.

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MARKET ANALYSIS OF THE IMPACT ON VALUE FROM SOLAR FARMS

METHODOLOGY

According to Randall Bell, PhD, MAI, author of text *Real Estate Damages*, published by the Appraisal Institute in 2016, the paired sales analysis is an effective method of determining if there is a detrimental impact on surrounding properties.

*“This type of analysis may compare the subject property or similarly impacted properties called **Test Areas** (at Points B, C, D, E, or F) with unimpaired properties called **Control Areas** (Point A). A comparison may also be made between the unimpaired value of the subject property before and after the discovery of a detrimental condition. If a legitimate detrimental condition exists, there will likely be a **measurable and consistent difference** between the two sets of market data; if not, there will likely be no significant difference between the two sets of data. This process involves the study of a group of sales with a detrimental condition, which are then compared to a group of otherwise similar sales without the detrimental condition.”¹*

As an approved method, paired sales analysis can be utilized to extract the effect of a single characteristic on value. By definition, paired data analysis is “a quantitative technique used to identify and measure adjustments to the sale prices or rents of comparable properties; to apply this technique, sales or rental data on nearly identical properties is analyzed to isolate a single characteristic’s effect on value or rent.”² The text further describes that this method is theoretically sound when an abundance of market data is available for analysis. It may be impractical for those property types that do not frequently sell, such as commercial properties. *The Appraisal of Real Estate* states that the lack of data can reduce the strength of the analysis, and that “an adjustment derived from a single pair of sales is not necessarily indicative” of the value of the single difference (i.e. proximity to an external factor).

Our methodology does not rely on multiple subjective adjustments that are typical in many appraisals and single-paired sales analyses. Rather, our methodology remains objective and the only adjustments required are for market conditions; this is reasonable as this is an explainable trend tracked by credible agencies. We applied a Trend Analysis to adjust the Control Sales for market conditions (the time between sales), as this is a variable that affects all properties similarly and can be adjusted for in an objective manner. The constant valuation date was determined to be the date of the Test Area sale. According to the *Dictionary of Real Estate Appraisal, 6th edition*, a Trend Analysis is defined as:

“A quantitative technique used to identify and measure trends in the sale prices of comparable properties; useful when sales data on highly comparable properties is lacking but a broad

¹ Bell, Randall, PhD, MAI. *Real Estate Damages*. Third ed. Chicago, IL: Appraisal Institute, 2016.

² *The Appraisal of Real Estate 14th Edition*. Chicago, IL: Appraisal Institute, 2013.

database on properties with less similar characteristics is available. Market sensitivity is investigated by testing various factors that influence sale prices.”

We extracted a monthly appreciation rate for each set of Control Sales and applied that to each respective grouping to normalize the sales to a common valuation date.

PUBLISHED STUDIES

We have also considered various studies that consider the impact of solar farms on surrounding property values. The studies range from survey-based formal research to less formal analyses.

The studies show that over the past decade, the solar industry has experienced unprecedented growth. Among the factors contributing to its growth were government incentives, significant capacity additions from existing and new entrants and continual innovation. The incentives made the solar photovoltaic (PV) industry economically attractive for many consumers and as a result, set the conditions for the boom. A significant amount of farmland trades have been to solar developers; transaction prices for these deals were reported to be between 30 to 50 percent above normal agricultural land prices in 2016.

Clean Energy Trends, a publication developed by Clean Edge, reported in 2013 that investments in new capacity of solar farms increased from approximately \$3 billion USD in 2000 to approximately \$91 billion USD in 2013, just short of the record of \$92 billion USD in 2011. Solar PV installations increased from 31 Gigawatts (GW) in 2012 to a record of approximately 37 GW in 2013. As a result, annual solar PV installations exceeded annual wind installations for the first time. Before 2011, annual wind installations were double annual solar PV installations.

Solar farms offer a wide array of economic and environmental benefits to surrounding properties. Unlike other energy sources, solar energy does not produce emissions that may cause negative health effects or environmental damage. Solar farms produce a lower electromagnetic field exposure than most household appliances, such as TV and refrigerators, and studies have confirmed there are no health issues related to solar farms.³ The Solar Foundation measured that the solar industry increased employment by 22 percent from 2013 to 2015. Solar farm construction in rural areas has also dramatically increased the tax value of the land on which they are built, which has provided a financial boost to some counties. According to Duke University’s Center on Globalization, Governance, and Competitiveness (“DUCGCC”), a study of solar projects in North Carolina indicated despite the 80% tax abatement, the taxable value of a parcel with a solar farm is significantly larger than the taxable value of that same land under agricultural zoning.

Beyond creating jobs, solar farms are also benefiting the overall long-term agricultural health of the community. As explained by ReThink Energy, a conservation foundation, a typical solar farm has more than two-thirds of the

³ “Electromagnetic Field and Public Health.” Media Centre (2013): 1-4. World Health Organization.

field left open and uncovered by solar panels. This unused land, and also all the land beneath the solar panels, will be left to repair naturally.

A solar farm can greatly increase the value of land, offering some financial security for the property owner over 20 to 25 years. Once solar panel racking systems are removed, the land can revert to its original use.

Property value impact studies prepared by other experts have also noted that the installation of utility-scale solar on a property has no measurable or consistent negative impact on adjoining property's value. According to a report titled "Mapleton Solar Impact Study" from Kirkland Appraisals, LLC, conducted in Murfreesboro, North Carolina in September 2017, which studied 13 existing solar farms in the state, the study found that the proposed solar farm had no impact to adjacent vacant residential, agricultural land, or residential homes. The adjoining land for the paired data sales analysis in the report was primarily low density residential and agricultural uses, although there was one case where the solar farm adjoined to two dense subdivisions of homes.

The Chisago County (Minnesota) Assessor's Office conducted their own study on property prices adjacent to and in the close vicinity of the North Star solar farm in Chisago County, Minnesota. At the November 2017 Chisago County Board meeting, John Keefe, the Chisago County Assessor, presented data from his study. He concluded that the North Star solar farm had, "no adverse impact." His study encompassed 15 parcels that sold and were adjacent or in the close vicinity to the solar farm between January 2016 and October 2017. Almost all of the properties sold, were at a price above the assessed value. He further stated that, "It seems conclusive that valuation has not suffered."

Furthermore, Grant County, Kentucky Property Value Administrator, Elliott Anderson, told us that Duke Energy built a solar farm near Crittenden, adjacent to existing homes on Claiborne Drive in December 2017. There have been nine arm's length homes sales on that street since the solar farm came online, due to normal market conditions. Each of those nine homes sold higher than its Assessed Value, one over 32 percent higher. The Assessed Values in Grant County are based on 100 percent Fair Market Values as determined by the Property Value Administrator's office. Anderson noted that several more lots are for sale by the developer and four more homes are currently under construction, set to deliver in 2021. Anderson said that the solar farm had no impact either on adjoining home values or on marketability or desirability of those homes adjacent to the solar farm. Anderson added, the homes sold at market prices in a market that has been experiencing a boom since at least mid-2019.

We note there have been two academic studies completed that attempt to quantify the effect on property values due to proximity to solar. The first paper is a study completed by The University of Texas at Austin, published in May 2018. The paper attempts to qualify that there may be a possible detrimental impact on property values for real estate (single-family homes) located in close distances to a solar facility, and with larger facility size. This opinion was based on survey results with local assessors, of which a majority indicated they had reviewed no data that indicated a negative impact. A small number of those assessor respondents hypothetically surmised an impact, but none had evidence of such statements. Additionally, the research team behind the paper conducted a geospatial analysis to examine both housing density and median income surrounding these

facilities, and made the conclusion “that relatively few homes are likely to be impacted” since few homes are located in proximity to these facilities since they are located in areas with lower populations.”

Finally, the University of Texas paper concluded that a real estate professional should undertake a more specific impact study to address and test their initial findings.

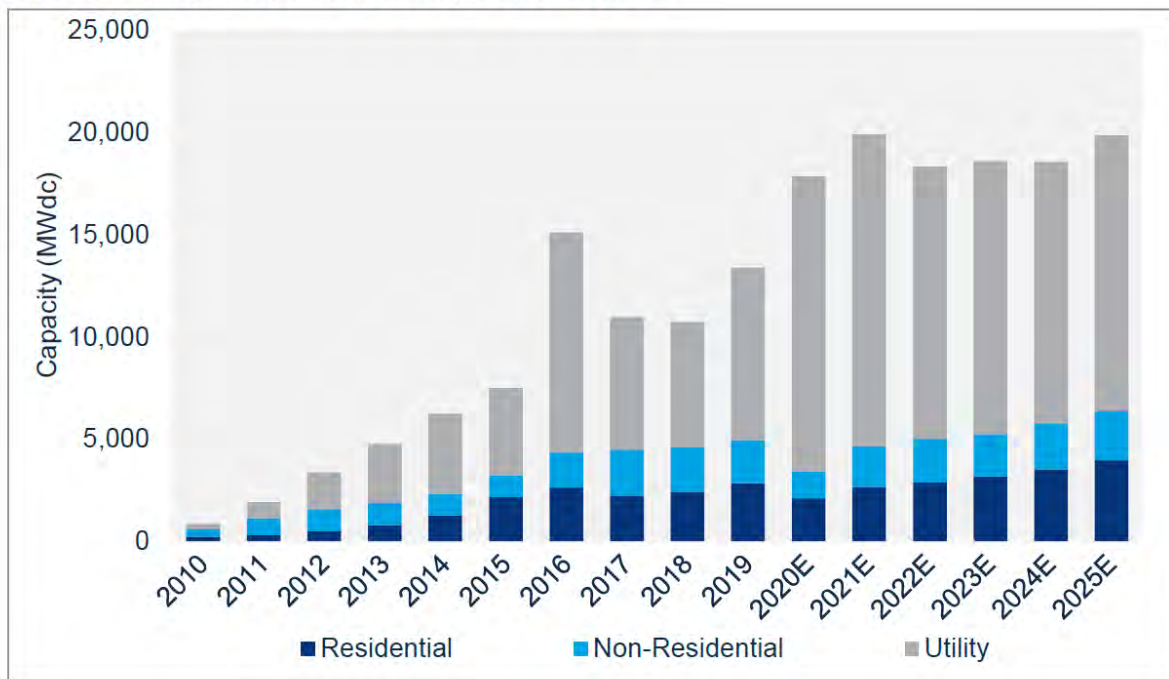
The second paper is a study completed by a team at the University of Rhode Island, published in September 2020. The study utilized a hedonic pricing model, or multiple regression analysis, to quantify the effect of proximity on property values due to solar by studying existing solar installations in Massachusetts and Rhode Island. A significant weakness of the study is that the data points in the Test Area group extend up to a mile away from solar installations, and the preparer of the study acknowledged that view of a solar farm was not a tracked attribute of the sales. Our review of the study indicated that there was not enough reliable data utilized in the analysis to produce credible results and certain data points included in the analysis should have been omitted. That being stated, the total impact on adjacent property was considered by the model to be 1.7 percent - or a very nominal amount that we believe to be immaterial.

ADJACENT PROPERTY VALUES IMPACT STUDY

OVERVIEW OF SOLAR DEVELOPMENT IN THE UNITED STATES

Solar development increased almost exponentially over the past ten years in the United States as technology and the economic incentives (Solar Investment Tax Credits or ITC) made the installation of solar farms economically reasonable. The cost to install solar panels has dropped nationally by 70 percent since 2010, which has been one factor that led to the increase in installations. A majority of these solar farm installations are attributed to larger-scale solar farm developments for utility purposes. The chart below portrays the historical increase on an annual basis of solar installations in the US as a whole, courtesy of research by Solar Energy Industries Association (SEIA) and Wood Mackenzie, and projects solar photovoltaic (PV) deployment for the next five years, through 2025, with the largest percentage of installations attributed to utility-scale projects.

U.S. PV installation forecast, 2010-2025E



Source: Wood Mackenzie

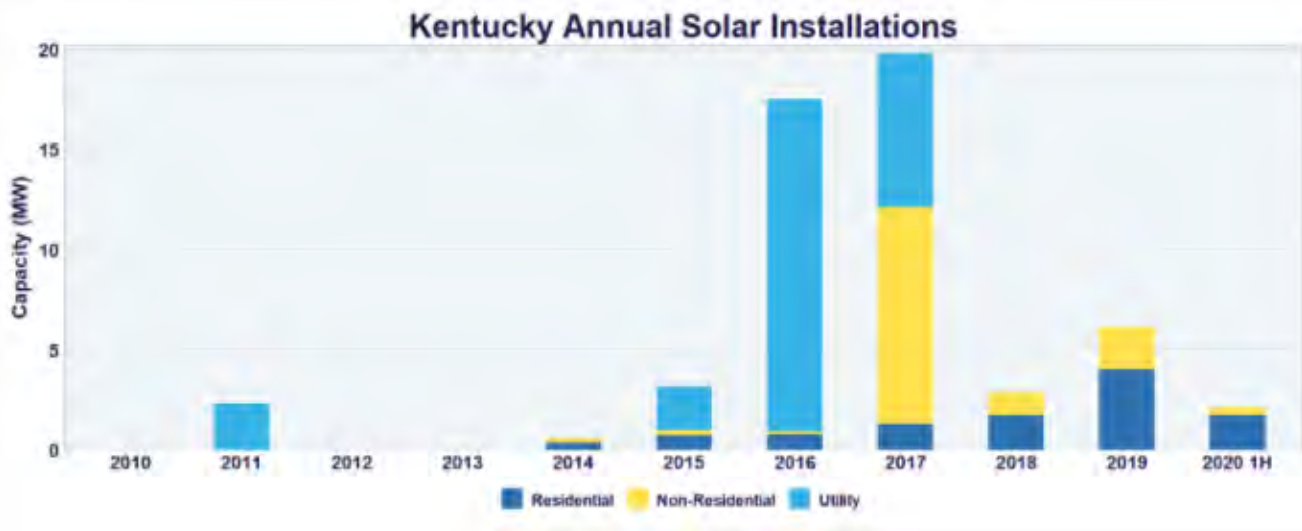
The United States installed 13.3 Gigawatts (GW) DC of solar photovoltaic capacity for both residential and utility-scale solar projects installed in 2019, representing an increase of 23 percent year-over-year. The first quarter of 2020 was largely unaffected by the Coronavirus Pandemic, and saw 3.6 Gigawatts (GW) DC installed, the largest first quarter on record by over 1 Gigawatt. However, the Solar Industry is not immune from the pandemic. Second quarter is seeing some impact, most acutely in distributed solar, which is expected to see 31 percent

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fewer installations as compared to last year, as installers face work stoppages and consumer demand reacts to an impending recession. The pipeline for utility-scale PV, as of June 2020, includes capacity of 51 GW combined from contracted projects (including those under construction) as well as announced but pre-contract sources.⁴ With the increase of utility-scale solar installations across the country, solar projects have become a common and understood feature of the landscape and will continue to proliferate with the projected additional capacity to come online in the coming years despite the downside risks caused by the coronavirus pandemic.

SOLAR DEVELOPMENT IN KENTUCKY

As of the end of the first half of 2020, Kentucky has 54.5 MW of solar installed, ranking only 47th in the US for the capacity of solar installed. There have been significantly more utility investments in clean energy with continued growth on the horizon, with 590.04 MW of solar proposed to be installed over the next five years.



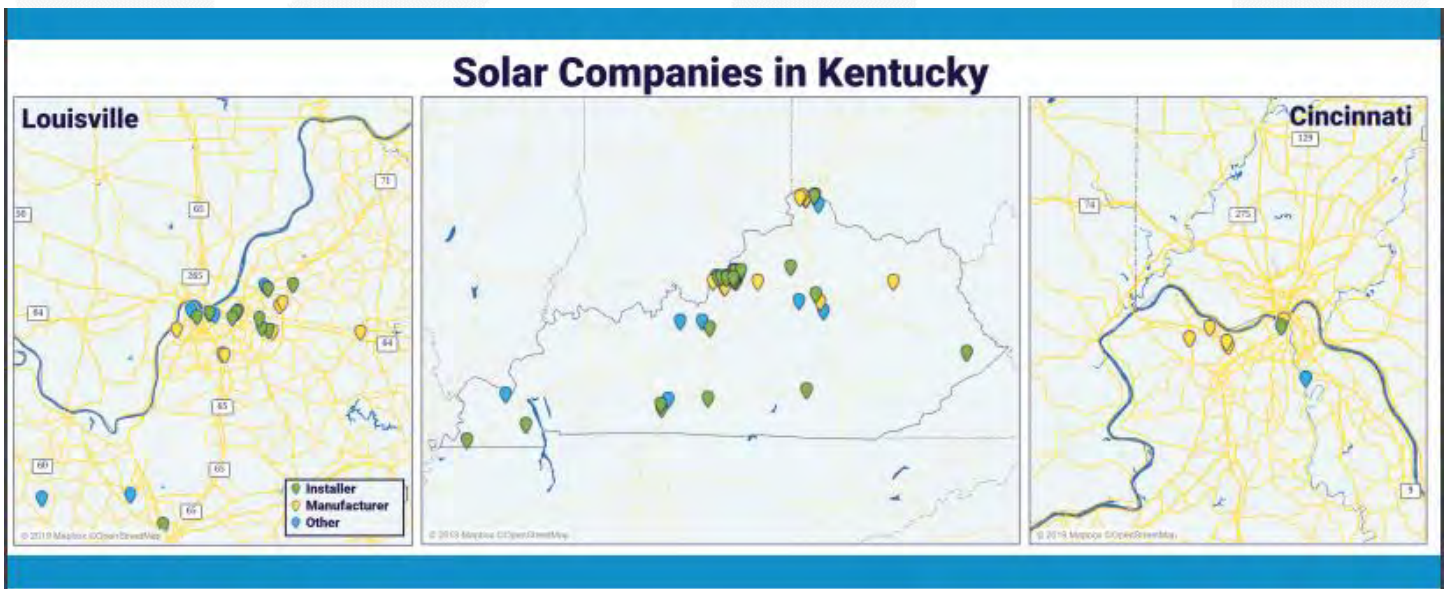
Kentucky only has a few solar installations, and most of them are less than 10 MW of power. The largest solar site in Kentucky is the Kentucky Utilities Co. project located in Mercer County, Kentucky. This solar farm is part of the E.W. Brown Generating Station, consisting of 457 MW of coal-fired power generation, 895 MW of natural gas fired power generation, 10 MW of solar power generation, and 33 MW of hydroelectric power generation. The generating station was established in 1925 with the construction of the Dix Dam and Dix hydroelectric facility, representing Kentucky's first hydroelectric dam by the time it was completed in 1925. Herrington Lake was also formed as a result, which has numerous residential homes along the waterfront and is a popular fishing and recreation destination. The solar facility was added in 2016 and sits on fifty acres of the power plant property, providing electricity to power approximately 1,500 homes. We note there are some homes to the east of the solar

⁴ Solar Energy Industries Association, Solar Market Insight Report 2020 Q2, released June 2, 2020.

arrays along Herrington Lake with boat docks that were built in the 1960s before the solar panels were constructed. These homes are more expensive than the median home value in the county on a per square foot of gross living area basis given their waterfront location on Herrington Lake, although they are accessible only via a utility road on the power plant property. Homes on the other side of Herrington Lake are adjacent to a golf course and are generally larger in size. As identified in the Methodology section earlier in this report, credible results from paired sales analysis can be achieved when it is used to extract the effect of a single characteristic on value. We did not prepare an independent evaluation of the homes adjacent to the solar panels since it is difficult to extract any other possible external influence on property values, including adjacency to the coal-fired and natural gas combustion generators at the E.W. Brown Generating Station or proximity to a golf course.

The next largest solar farm is East Kentucky Power Cooperative, Inc.'s Cooperative Solar One project that installed in November 2017, located in Clark County, KY with a capacity to generate 8.5 MW of electricity. A Clark County, Kentucky Property Valuation Administrator, Jason Neely, noted there have been no complaints regarding the Cooperative Solar One project. Additionally, Neely stated he has not seen any evidence of lowered property values in the area and *no reduction in assessed property values has been made due to proximity to the solar farm.*

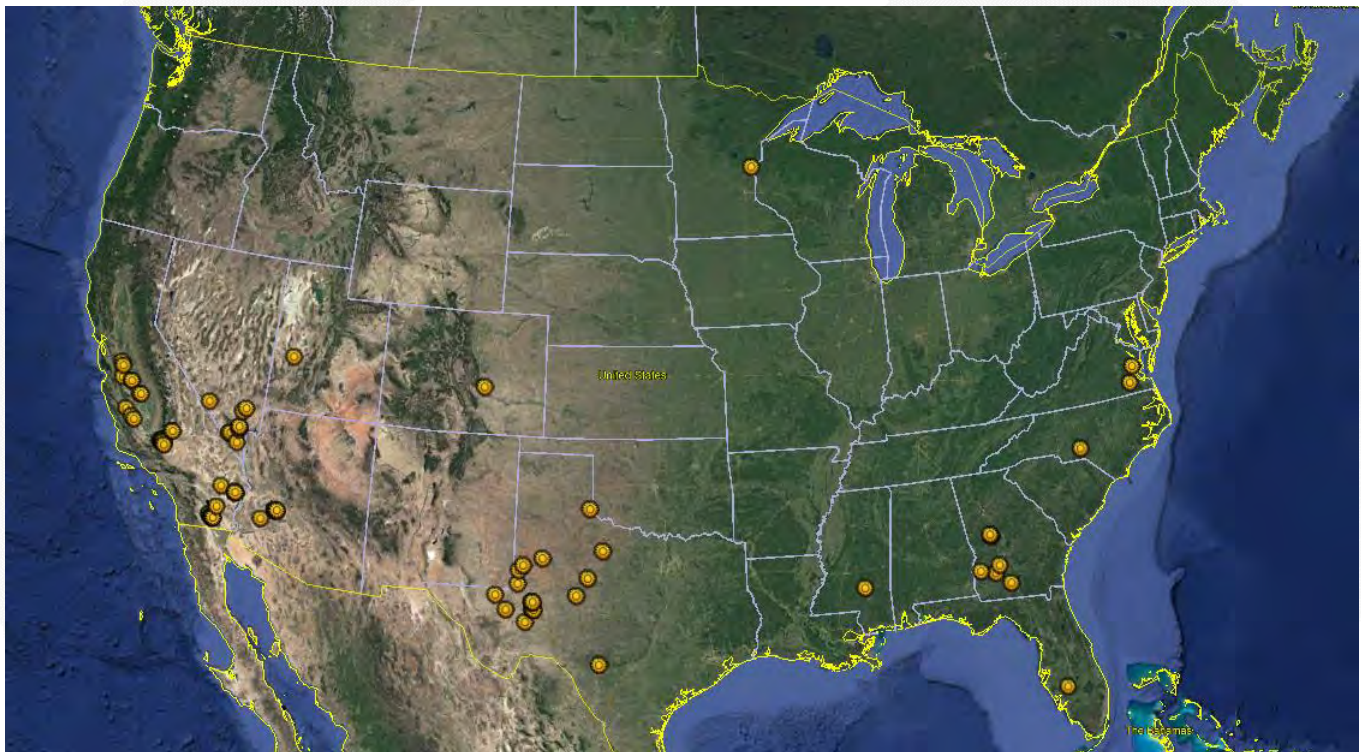
Kentucky is home to 1,362 solar related jobs, and 55 solar related companies, which includes 15 manufacturers, and 22 installers/developers. We have presented a map for these companies on the following page, courtesy of the SEIA.



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LARGE-SCALE SOLAR IN THE UNITED STATES

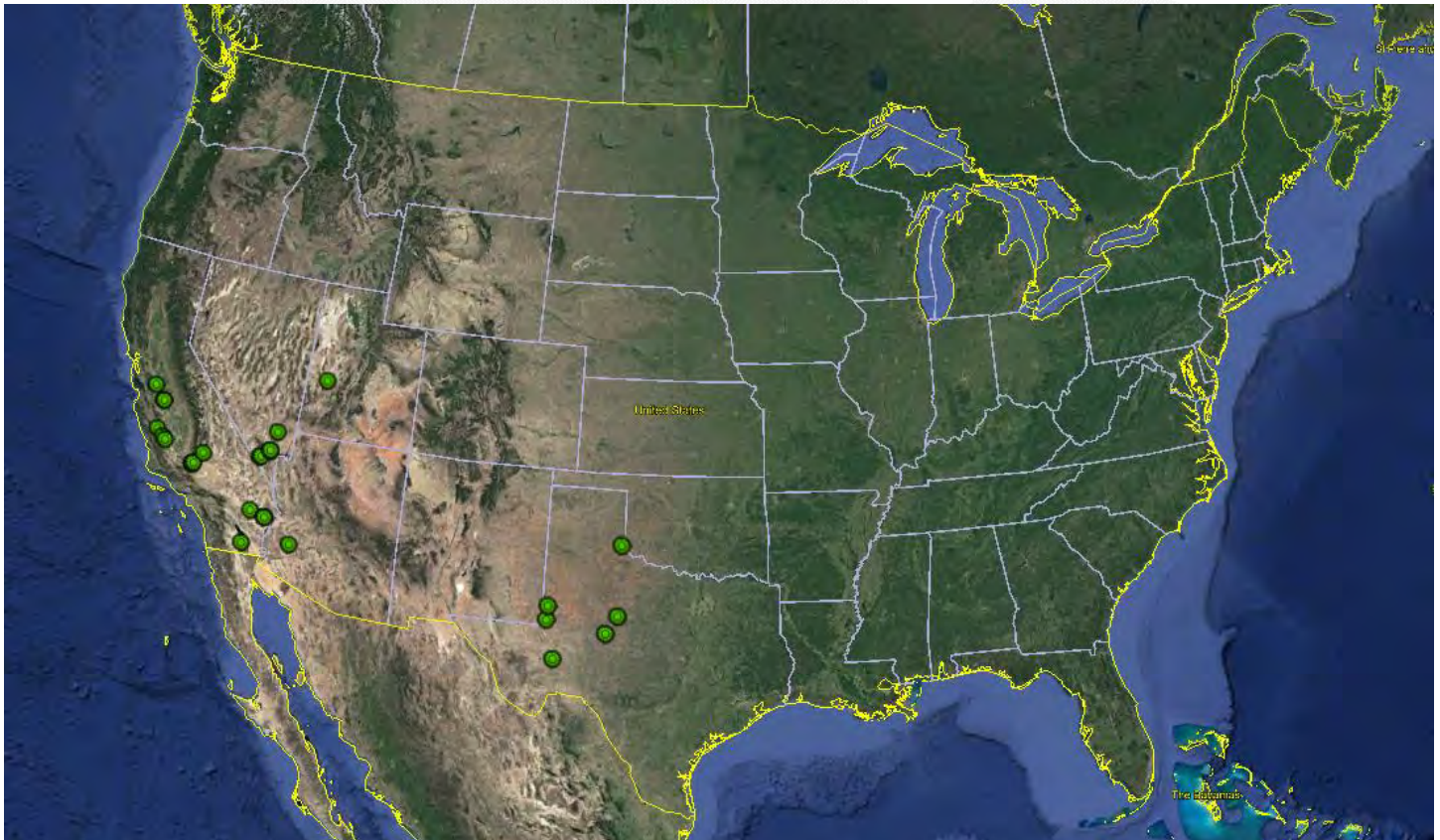
According to the U.S. Energy Information Administration (EIA) through June 2020, there were ± 230 solar facilities in operation that generate more than 50 MW AC of power, and ± 84 solar facilities in operation that generate more than 100 MW AC of power. A map illustrating existing solar farms with capacities greater than 100 MW is presented below (indicated by yellow suns), using data retrieved from the Energy Information Administration (EIA). There are currently no operating solar farms in Kentucky with capacities greater than 25 MW, although new large, utility scale projects have been approved in the surrounding states within the last 2 years or are under construction.



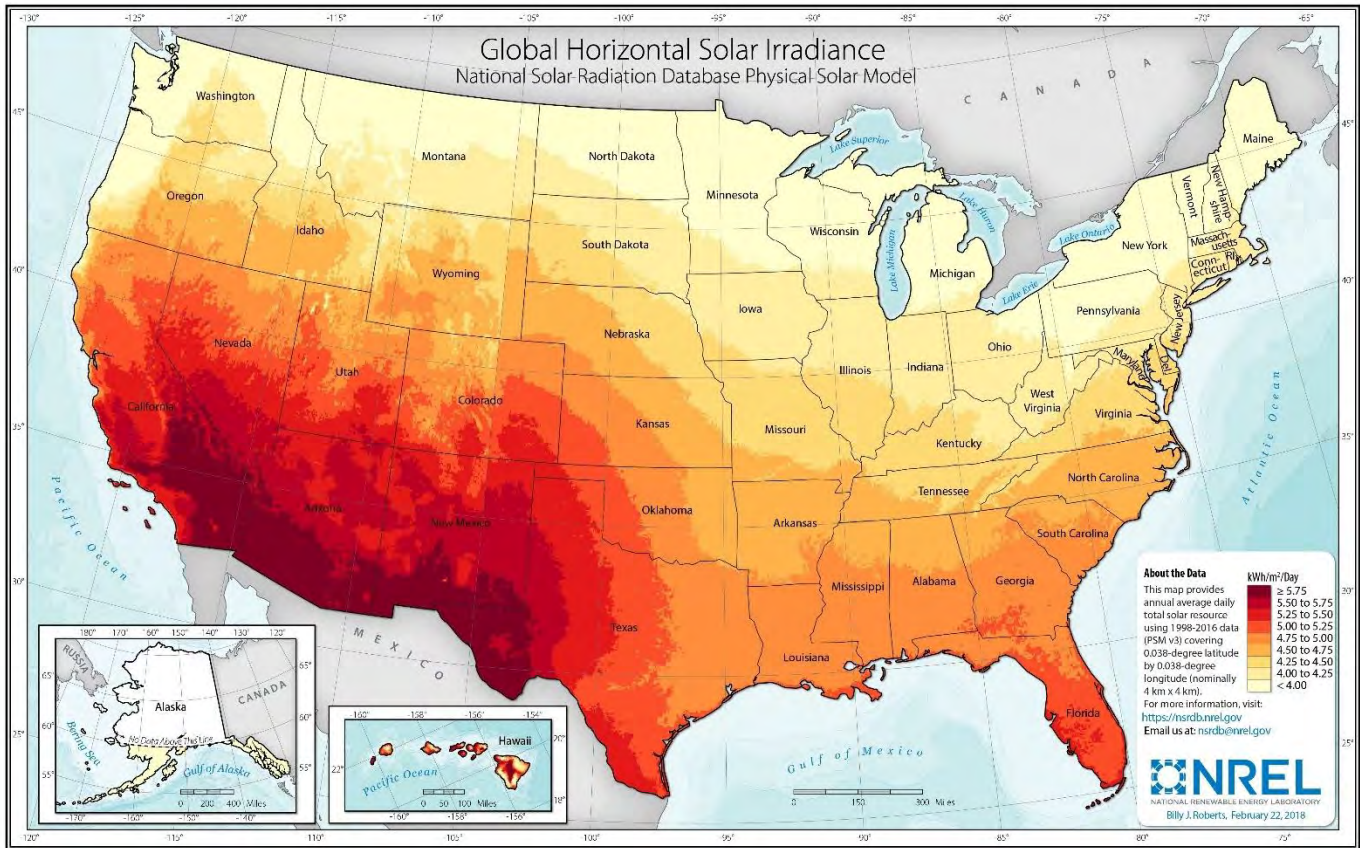
To meet zoning and planning requirements, and/or to take advantage of certain incentive programs, several solar farms are built by the same developer around the same location, de facto functioning as one larger solar farm. Many of these solar facilities are located in California, with several located in Florida, Texas, Nevada, North Carolina, Arizona, Georgia and Utah. Additionally, these installations are typically located in outlying areas where site costs are lowest, and residential development and sales activity is minimal in these areas. While we have reviewed each for surrounding uses, the majority are not good candidates for a paired sales analysis since they were either recently constructed or surrounding development/sales activity was minimal.

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In the United States there are ±27 operating solar farms with generating capacities above 200 MW AC, presented below (indicated by green suns). All of the existing solar farms in operation as of June 2020 that have a generating capacity of greater than 200 MW AC are located in the southwestern United States. This is due to economies of scale for reducing development costs by maximizing size in areas where there is maximum sunlight, and can be correlated between the below aerial image and the map presented on the following page developed by the National Renewable Energy Laboratory (NREL).



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The vast majority of them are locationally removed from development. For example, the 253 MW AC solar farm known as Antelope Valley Solar Ranch One, as shown below, is located in the Mojave Desert on non-crop producing land, approximately 50 miles north of the City of Los Angeles and feeds into the Pacific Gas and Electric's power grid.

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The largest operating solar farm in the United States and one of the largest in the world is the Topaz Solar Farm, located in California Valley in eastern San Luis Obispo County, in the northern portion of the

Carrizo Plains. The Topaz Solar Farm has a total nameplate capacity of 585.9 MW AC, and was constructed over time between 2013 and 2014 on 4,700 acres of private land, consisting of five individual permitted installations ranging in size from 90 MW to 151 MW. Pacific Gas and Electric purchased the electricity generated under a 25-year power purchase agreement. The power generated is enough to power nearly 160,000 average California homes, and at the time of development economic benefits were an estimated \$417 million, including property and sales tax revenue for the county, wages from employment, and supply chain spending.

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We also spoke with the San Luis Obispo Real Property Appraiser Ross Felthousen who indicated that this is an environmentally sensitive area, and it is the least desirable for nearly any type of development. The Carrizo Plain is a large-enclosed grassland containing the Carrizo Plain National Monument, the largest single native grassland remaining in California and national historic landmark. Additionally, the San Andreas Fault is located along the eastern edge of the Carrizo Plains. The area is remote in nature, as it is at least an hour in either direction to reach major cities; although, for solar development it has a high amount of “sun” days, two existing high capacity power lines, and little fog days due to its location in the California Valley.

As part of the development process, the developer purchased the underlying land and also had to purchase land for mitigation since there are endangered plant and animal species in this area (aside from also meeting “100” conditions of approval). Screening and fencing were required to be compatible with the endangered species’ native habitat. According to the owner’s project description, the developer worked with the county, state, and federal resource agencies, and national and local environmental groups, to avoid, minimize and mitigate environmental impact, including the following:

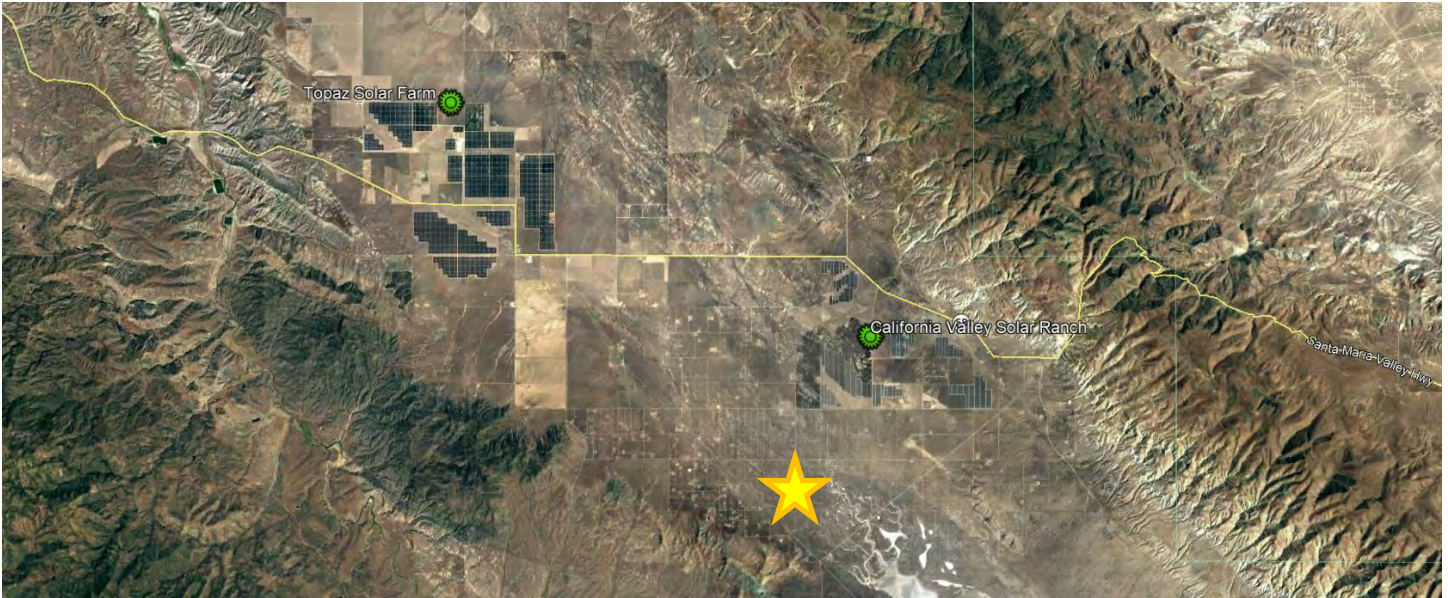
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- “Productive grassland habitat for native plants and animals while passively farming the sun’s energy.
- No panel washing is required. Annual rainfall in the [Carrizo] Plains is sufficient to clean the panels.
- Year-round vegetation monitoring provides dust control and habitat for native species. Annually, a variety of grazing methods are used throughout the project footprint for vegetation management.
- Between 2015 and 2020, monitoring efforts of the San Joaquin kit fox – a federally listed endangered species – will be done throughout the project footprint and the surrounding mitigation lands.
- Situated on nonprime agricultural land, animals can graze throughout the project footprint within wildlife movement corridors. The movement corridors support Pronghorn Antelope and Tule Elk.”⁵

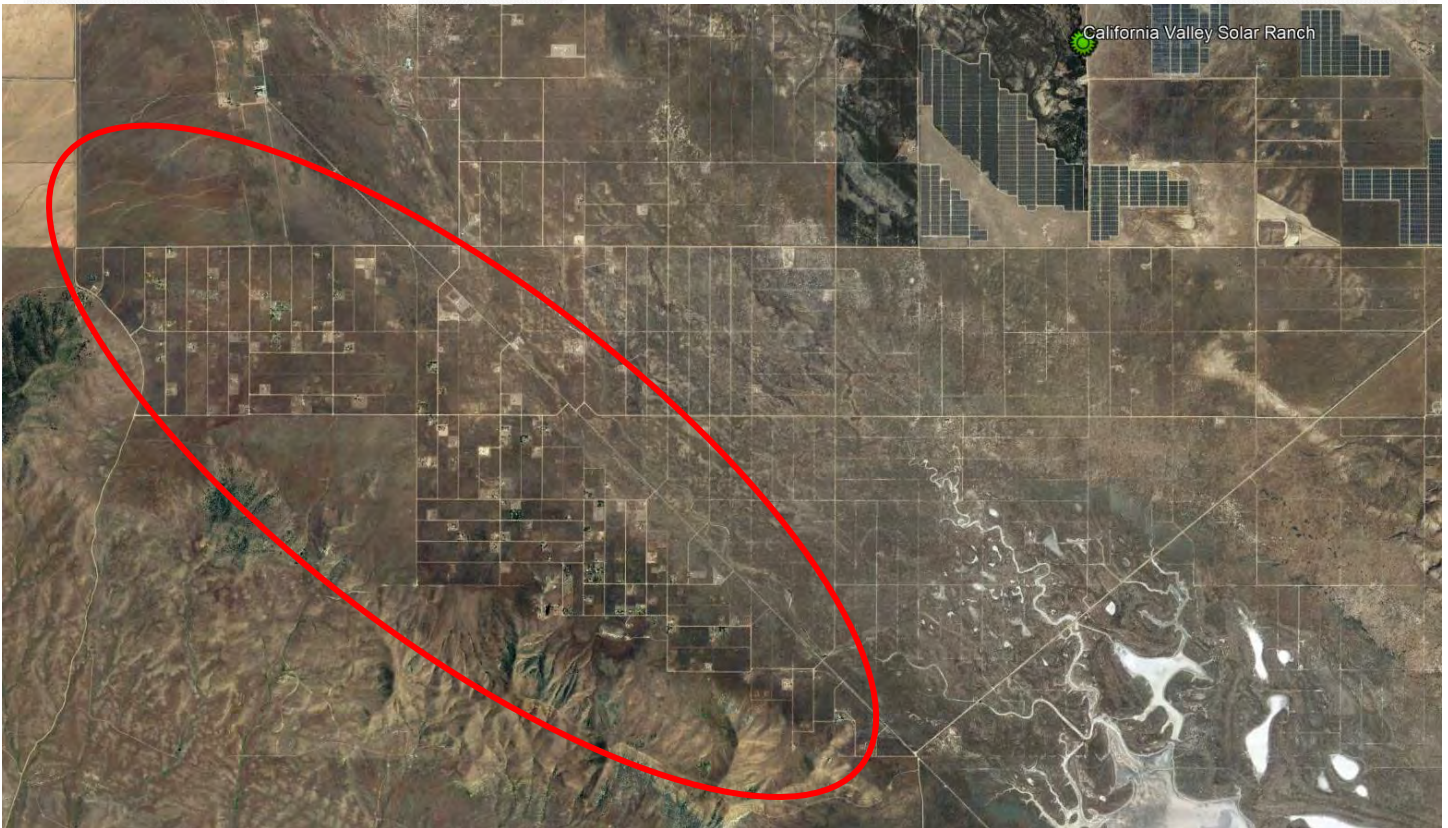
While it was undergoing development, the construction of this and the neighboring California Valley Solar Ranch spurred hundreds of new jobs, requiring on-site housing due to its remote location. As a result, there was a flurry of activity in the area, which included reopening a vacant motel for the construction workers. Fewer than 500 people live in this area, most of which are retirees, ranchers, or those working on protecting the Carrizo Plains. The area has seen limited development activity since water is sparse, and the quality of the groundwater is also questionable in areas.

In the 1960s, an antiquated subdivision known as California Valley was platted, which includes more than 7,000-2.5 acre lots. Success of the subdivision largely relied on municipal water supply, but it never came to fruition due to several issues. Since then, approximately 100-200 of the lots have been developed, limited to areas where private wells have the quantity and quality of water for residential use. Public services are limited in this area given the low population. According to Felthousen, the 2.5-acre lots in California Valley are estimated at \$3,000 to \$10,000 per acre depending on the availability of water, and there is very minimal demand given the prior comments on the area. The image on the next page illustrates the location of the subdivision.

⁵ https://www.bherenewables.com/include/pdf/fact_sheet_topaz.pdf



California Valley Subdivision Location (indicated by orange star)



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As encircled by the red oval on the prior page, most of the development in the subdivision is limited to this area as it is the most prevalent with water for private wells.

After reviewing local environmental barriers and the lack of public infrastructure, these two solar farms in California Valley did not qualify for further analysis as the local area is not comparable to the Project Area and the presence of several external factors reduces the credibility of an analysis. San Luis Obispo Real Property Appraiser Ross Felthousen indicated that neither solar farms affected property values in the local area, and in fact increased local activity.

The remainder of the existing solar farms in operation over 200 MW AC are located in areas where there is no adjacent development to study and these did not qualify for further analysis. The next section details the selected Existing Solar Farms in the adjacent property value impact study.

SELECTION OF SITES AND ANALYSES

Because of the lack of large existing utility-scale solar installations in Kentucky, we expanded our analysis and reviewed other large solar farms in other states. We reviewed additional solar farms located in Kentucky; however, they were not candidates for a paired sale analysis due to external factors or lack of adjoining sales.

Based on our previous assessment of solar development, we have studied established solar farms in the Midwest/South (one in Georgia, two in Florida, one in Indiana, one in Minnesota, and one in Michigan) and the East (three in North Carolina and one in Virginia) because of their size and the way that soil conditions, climate, and topography contribute to property values and their potential for impact on property values in addition to the adjacent uses and development trends.

The selected solar sites in this analysis were considered based on their similarities in surrounding areas, size, and availability of arm's length adjoining property transaction data that were available for analysis. Of significance is the North Star Solar Farm located in Chisago County, Minnesota. This is a utility scale solar farm is located in a rural area surrounded by single family residences and agricultural land, similar to the proposed projects.

In total, we identified ten solar farms to study with comparable sales where generally the only difference was the attribute under study: proximity to a solar farm.

Ownership and sales history for each adjoining property to an existing solar farm through the effective date of this report is maintained within our workfile. Adjoining properties with no sales data or that sold prior to the announcement of the solar farm were excluded from further analysis. Adjoining properties that sold in a non-arm's length transaction (such as a transaction between related parties, bank-owned transaction, or between adjacent owners) were excluded from analysis as these are not considered to be reflective of market price levels. The adjoining properties that remained after exclusions were considered for a paired sale analysis.

The difference in price is considered to be the impact of the proximity to the solar farm. Two types of paired sales analyses were considered based on the availability of data:

- Comparing sales of adjoining properties prior to the announcement of the solar farm to sales of adjoining properties after announcement and subsequent development of the solar farm (a “Before and After Analysis”).
- Comparing sales of adjoining properties after the announcement and subsequent development of the solar farm to sales of comparable properties that are locationally removed from their influence.

We have considered both types of paired sales analyses in this study. We performed three “Before and After Analyses,” as defined above, for one solar farm in Indiana, one in Minnesota, and one in Florida. The remaining existing solar farms studied did not qualify for this Before and After Analysis due to lack of quantity of homogenous sale data. All ten solar farms qualified for the second type of paired sales analysis, which was comparing sales of properties locationally removed from the solar farm (Control Area) to sales of adjoining properties that occurred after the announcement and subsequent development of the solar farm project (Test Area).

We have found Control Area sales data through the local Multiple Listing Service (MLS) and other real estate broker databases and verified these sales through county records, conversations with brokers, the individual county’s GIS services, and the county assessor’s office. It is important to note that these Control Area Sales are not adjoining to any solar farm, nor do they have a view of a solar farm from the property. Therefore, neither the announcement nor the completion of the solar farm use could have impacted the sale price of these properties.

To make direct comparisons, the sale price of the Control Area Sales will need to be adjusted for market conditions to a common date. In this analysis, the common date is the date of the Adjoining Property Sale after the completion of the solar farm. After adjustment, any measurable difference between the sale prices would be indicative of a possible price impact by the solar farm, if any.

For the ten existing solar farms studied, a summary of the analysis completed for each solar farm studied is presented on the following pages. Details of these analyses are retained within our workfile, and will be provided to the client for their review (or to a party of the hearing), after execution of a specific Non-Disclosure Agreement relating to our research and interviews.

We also noted that our impact study data and methodology have been previously reviewed by our peer in the filed – Kirkland Appraisals, LLC – as well as by the Solar Energy Industries Association (SEIA).

SOLAR FARM 1: NORTH STAR SOLAR FARM, CHISAGO COUNTY, MINNESOTA



Coordinates: Latitude 45.486756, Longitude -92.884206

PINs: Multiple

Total Land Size: ±1,000 Acres

Date Project Announced: 2014

Date Project Completed: October 2016

Output: 100 MW AC

Overview and Surrounding Area:

The North Star Solar Farm is located approximately four miles southeast of the City of North Branch in unincorporated Chisago County, near the intersection of Route 69 and Route 72. The solar farm was developed by Community Energy Solar in 2016 and is the largest solar farm in the Midwest. The solar farm features 440,000 solar panels and a power output capacity of 100 MW AC, which is enough to power 20,000 homes. The owner, North Star, LLC, has a 25-year purchase contract for the power produced by the project with Xcel Energy.

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Chisago County lies on Minnesota's eastern border, abutting the western border of Wisconsin, across the Saint Croix River. The North Star Solar Farm is approximately 16 miles west of the border with Wisconsin and is just over one mile west of the Kost Dam public park and reservoir, a 28-acre park on the south branch of the Sunrise River.

The Immediate Area:

The North Star Solar Farm is surrounded by agricultural land to the north and west. To the south and east of the project there are several residential properties, some of which are nestled within the actual solar farm.

All of the adjacent land parcels to the solar farm are used for agricultural or residential purposes.

The solar farm has agricultural and deer fencing around parts of the project. Additionally, native vegetation and trees previously existed as a buffer along the frontage roads.

Prior Use: Agricultural use

Real Estate Tax Information:

Prior to development of the solar farm, in 2015, this ±1,000-acre site paid real estate taxes of \$37,250, annually. After the solar farm development, in 2017, real estate taxes increased to \$112,856, a 203 percent increase in tax revenue for the site.

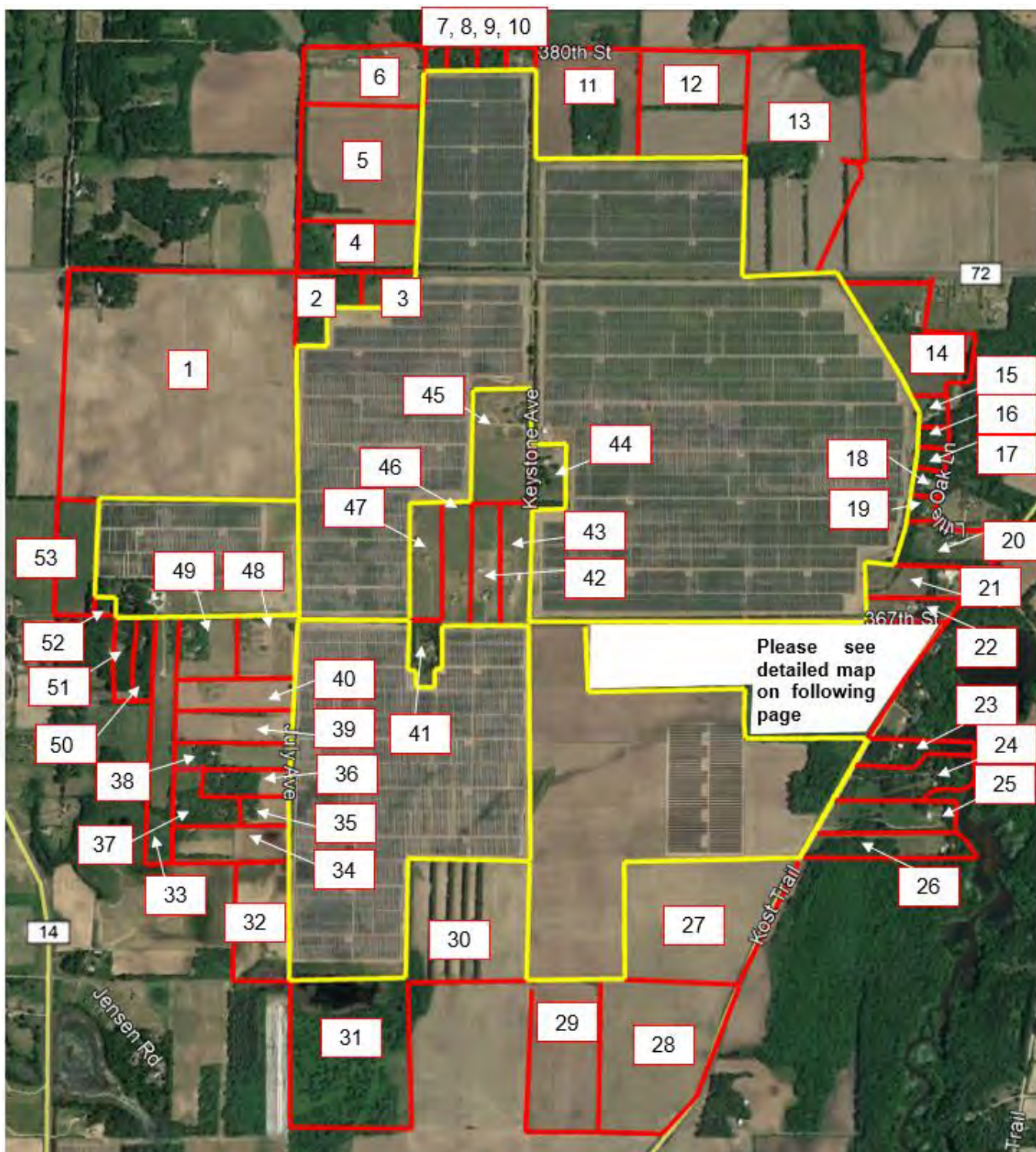
PIN	Acres	2015 Taxes Paid	2017 Taxes Paid	Tax Increase	2015 Assessed Value	2017 Assessed Value	Value Increase
Chisago County, MN							
09.00348.00	74.91	\$ 2,806	\$ 8,546	205%	\$ 198,800	\$ 233,900	18%
09.00349.00	74.30	\$ 2,818	\$ 8,578	204%	\$ 199,600	\$ 234,800	18%
09.00350.10	16.95	\$ 644	\$ 2,752	327%	\$ 45,600	\$ 75,300	65%
09.00351.10	68.01	\$ 3,260	\$ 9,806	201%	\$ 230,900	\$ 268,400	16%
09.00353.00	81.87	\$ 3,114	\$ 8,678	179%	\$ 220,500	\$ 237,500	8%
09.00354.00	121.84	\$ 4,578	\$ 13,324	191%	\$ 324,200	\$ 364,700	12%
11.00517.00	72.07	\$ 3,382	\$ 7,440	120%	\$ 194,400	\$ 224,100	15%
11.00528.00	66.42	\$ 1,460	\$ 6,836	368%	\$ 180,000	\$ 210,000	17%
11.00529.00	60.26	\$ 1,506	\$ 7,284	384%	\$ 168,700	\$ 168,800	0%
11.00726.00	40.55	\$ 1,010	\$ 3,968	293%	\$ 110,700	\$ 140,700	27%
11.00730.00	68.32	\$ 3,426	\$ 7,638	123%	\$ 315,700	\$ 338,200	7%
11.00731.00	160.83	\$ 3,598	\$ 17,924	398%	\$ 422,500	\$ 469,100	11%
11.00732.00	30.52	\$ 788	\$ 4,748	503%	\$ 84,900	\$ 109,500	29%
11.00732.10	10.00	\$ 4,860	\$ 5,334	10%	\$ 257,700	\$ 290,100	13%
TOTAL	946.85	\$ 37,250	\$ 112,856	203%	\$ 2,954,200	\$ 3,365,100	14%

Adjoining Properties:

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The maps on the following pages display the parcels that contain the solar farm (outlined in yellow). Properties adjoining the solar site (outlined in red) are numbered for subsequent analysis.

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North Star Solar Farm - Adjoining Properties

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North Star Solar Farm - Adjoining Properties

In reviewing Adjoining Properties to study in a Paired Sales Analysis, several properties and sales were considered but eliminated from further consideration as discussed below.

While assembling the solar development site, the developer of the solar farm acquired seven homes along 367th Street and nearby, Adjoining Properties 41, 42, 43, 44, 45, 46, and 47, which are surrounded by the solar arrays. According to conversations with the solar developer, they purchased the homes prior to development to provide interim housing for employees as the solar farm was under construction, or for potential use for the project area (which ultimately was not necessary). Per the developer the houses were purchased at an assemblage premium above their appraised values. After construction, the developer sold all seven homes at market prices, six to new buyers, and one, Adjoining Property 47, which was re-purchased by the original owner. This indicates that the development of the North Star Solar Farm did not deter transactions nor affect sale prices in the surrounding area.

Clifford Sheppeck, broker at Keller Williams Classic, was hired by Renewable Energy Asset Co, LLC, the solar farm developer, to market and sell the remaining five properties that the developer owned. We discussed these transactions with Mr. Sheppeck who indicated they all sold within two months, which was in line with the market.

In addition to the seven homes sold by the developer, we identified six other properties all which sold since the construction of the solar farm: Adjoining Properties 3, 10, 18, 38, 54 and 64. In all, a total of 13 identified Adjoining Properties have sold during or since the construction of the solar farm. These properties are discussed further in the following sections.

Properties Excluded from Paired Sales Analysis

Adjoining Property 3, located at 10009 375th Street, sold most recently in July 2019 for \$260,000, or \$172.41 per square foot of finished living area. This property is improved with a modular/pre-fabricated home in the rambler style, with one story and a basement with a partial walk-out portion, on just over five acres of land. During our

search for similar homes that sold away from the solar farm, we did not locate enough market transactions of homes around the time of the most recent sale of Adjoining Property 3 with similar construction and land size to yield reliable conclusions in a paired sale analysis. Although, this home, located at 10009 375th Street, sold most recently in July 2019 for \$260,000 it had also sold in March 2016 for \$219,900, during construction of the solar farm. The home also sold in March of 2005 for \$163,000. We have excluded the 2016 sale from paired sale analysis because we cannot separate any influence from construction on the sale price at that time. However, we can calculate the average monthly appreciation from 2005 to 2019 (+0.27 percent) which is higher than the average monthly home price appreciation in the same zip code of 55056 according to the FHFA Housing Price Index (discussed in more detail later), which was 0.0 percent over the same period. It is evident that the home value increased at a higher rate than homes in the local area over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm. The buyer's broker in the 2019 sale, Gail Reinhard, noted that the buyer had no concerns or issues with the home's proximity to the solar farm and the price paid was market oriented.

Adjoining Property 10, located at 10270 380th Street, sold in June 2018 for \$163,800, or \$143.18 per square foot of finished living area. The property is improved with a small, single-story, modular/pre-fabricated home with no basement, which is atypical for the area. Most the homes in the area, while similar in gross living areas, are one-story, single-family homes with basements, many with some level of finished square footage below grade. We conducted a search in the area for comparable modular homes without basements but did not find sufficient data yield reliable conclusions in a paired sale analysis. Additionally, this home does not appear to have been listed on the local MLS as we could not identify a broker contact for the most recent sale. We have reached out to the buyer and seller to confirm the nature of the transaction, but as of this writing, we have not made contact. We note that the home sold previously in July 2004; however, county sale records indicate the 2004 sale was between related parties which disqualifies it as an arm's length transaction. Due to limited sales in the area to categorize as Control Area Sales, Adjoining Property 10 was excluded from further analysis.

Adjoining Property 22, located at 11210 367th Street, sold in March 2015 for \$280,000, or \$74.55 per square foot of finished living area. It is a rambler built in 1974 with a full finished basement and has some ancillary farm buildings on a 5.2 acre site. This property also sold previously in December 2003 for \$107,000 before the solar farm was constructed. We have excluded the 2015 sale from paired sale analysis because we cannot separate any influence from construction on the sale price at that time. However, we can calculate the average monthly appreciation from 2003 to 2015 (+0.71 percent) which is higher than the average monthly home price appreciation in the same zip code of 55056 according to the FHFA Housing Price Index (discussed in more detail later), which was -0.1 percent over the same period. It is evident that the home value increased at a higher rate than homes in the local area over the same period. This information is also presented in the Before and After Analysis later in the study of the North Star solar farm.

Adjoining Property 38, located at 36438 July Avenue, sold during construction of the solar farm in October 2015 for \$225,000, or \$117.68 per square foot of finished living area. It is a home designed specifically as a passive solar home, taking advantage of the same renewable energy potential of the North Star solar farm. The property is set back behind five acres of agricultural land and is secluded behind trees and operates as a mixed-use

“hobby farm.” This is a highly atypical use with no comparable sales and it sold during construction; we have excluded the 2015 sale from paired sale analysis because we cannot separate any influence from construction on the sale price at that time. We note that the home sold previously in November 2003; however, we could not prepare a Before and After analysis utilizing this prior transaction as the most recent sale was marketed as a passive solar home. For these reasons, Adjoining Property 38 was excluded from further analysis.

Adjoining Property 41, located at 10095 367th Street, is subject to an existing 30-year lease for the southern 6.24 acres of the parcel for solar panels in the North Star solar farm. Because the property is a participating parcel in the solar farm, and due to the additional rental income from the land, the June 2017 sale of this property for \$336,900, or \$135.48 per square foot of finished living area, was excluded from a paired sales analysis. The sale of this property in May 2016 was to the solar developer for an above appraised value of \$365,000, which was an atypically motivated transaction. Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 43, located at 10254 367th Street, sold for \$335,000 in July 2017, for \$191.21 per square foot of finished living area, and is a two-story home with an atypical floor design. Most of the homes in the area, while having similar gross living areas, are one-story, single-family homes with basements. We conducted a search in the area for comparable above-grade, two-story homes, but did not find sufficient sales data. Mr. Sheppeck was the listing broker for this property and confirmed its atypical nature. He indicated that it sold at a price that was in-line with the market even though two-story homes are considered to be rare in the area. Due to limited comparably designed sales in the area, Adjoining Property 43 was excluded from a paired sales analysis. The prior sale of this property was to the solar developer for assemblage during construction for \$535,000, an above market price, in July 2016. Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 44, located at 37083 Keystone Avenue, sold for \$257,000, or \$157.86 per square foot of finished living area, in August 2017 and is a one-story rambler style home with an inferior quality of construction and an inferior basement. Sale listing materials indicated deferred maintenance. Most comparable sales either have finished or walk-out basements and average to above-average construction and condition quality. Due to limited comparable sales for this property, Adjoining Property 44 was excluded from a paired sales analysis. The prior sale of this property was in October 2016, to the solar developer for assemblage, for \$302,500. Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 45, located at 37206 Keystone Avenue, sold in June 2017 for \$290,000, or \$149.48 per square foot of finished living area, from the solar farm developer. The property is a split-entry home on over 20 acres. The home features an attached 3-car garage, a detached two-car garage with a finished second story, and a fenced in-ground pool. The County Assessor classified this property as agricultural due to its large acreage. Because this home is atypical (large acreage and pool) there were no comparable sales in the area and Adjoining Property 45 was excluded from further analysis. This home was previously purchased by the solar farm developer in July 2016 for \$450,000, an above market price, for assemblage during solar farm construction. After

construction was complete, the home was sold in 2017 at a market-oriented price, in an average number of days listed on the Multiple Listing Service (MLS). Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 47, located at 10090 367th Street, most recently sold in March 2018 for \$302,500, or \$127.53 per square foot of finished living area, from the solar farm developer. This home was previously purchased by the solar farm developer in August 2016 for \$360,800, an above market price, for assemblage during solar farm construction. According to the broker, Cliff Sheppeck, the original owner leased the house back from the developer after the sale, never moved out, and was hired to do maintenance and upkeep on the other six houses the developer purchased in the area. When the developer no longer needed the property, he sold it back to the original owner in 2018 at a market-oriented price. Because of the relationship between the parties in 2018 and 2016, we have not included it in a Paired Sales Analysis nor a Before and After analysis.

Adjoining Property 64, located at 36640 Kost Trail, sold in December 2019 for \$310,000, or \$139.70 per square foot of finished living area. The property is an above-grade, two-story home and has a partially finished basement, on over 8 acres of land. The property also includes a detached 2-car garage and a pole barn. Jeff Turbeville, broker at Edina Realty Inc., explained this two-story home style is atypical in the area and not enough control sales could not be found in our search for a credible paired sales analysis; thus, Adjoining Property 64 was excluded from further analysis.

Properties Included in Paired Sales Analysis

Adjoining Property 18, located at 37096 Little Oak Lane, sold in April 2017 for \$289,000, or \$119.82 per square foot of finished living area. The home is a rambler style, one-story, home with a finished walk-out basement on a 2.07-acre parcel. The improvements on this property are located approximately 225 feet from the nearest solar panel. The buyer's broker, Amy Lamb, noted that the home was in good shape and had been on the market for two years because the seller would not lower the price to market levels during previous listings. In the summer, Lamb noted, the solar panels were barely visible from the back of the property, but in winter they were visible. Lamb asked the buyers if the solar panel view would be a problem and their opinion was that the neighboring solar panels meant no other development that created traffic or noise would be built to disturb them. This home qualified for a paired sales analysis and was studied in Group 2, as detailed on subsequent pages. We have also studied this property in a Before and After analysis later in this report as it also sold in 2006, prior to construction of the North Star solar farm.

Adjoining Property 42, located at 10200 367th Street, sold in November 2017 for \$330,000, or \$151.93 per square foot of finished living area. The home is a split-level style house on 9.30 acres. The improvements on this property are approximately 393 feet from the nearest solar panel. This home qualified for a paired sales analysis and was studied in Group 1, as detailed on subsequent pages. This home was previously purchased by the solar farm developer in July 2016 for \$387,900, an above market price, for assemblage during solar farm construction. After construction was complete, the home was sold in 2017 at a market-oriented price, in an average number of days

listed on the Multiple Listing Service (MLS). Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 46, located at 10132 367th Street, sold most recently in December 2020 for \$415,000, or \$196.87 per square foot of finished living area. The home is a split-level style house on 9.31 acres. The home features an attached 3-car heated garage, an 816 square foot detached heated garage, and a 1,400 square foot outbuilding. The improvements on this property are approximately 330 feet from the nearest solar panel. This home also sold in October 2017 for \$333,000 from the solar developer who had purchased it in September 2016 for \$387,900, an above market price, for assemblage during solar farm construction. After construction was complete, the home was sold in 2017 at a market-oriented price, in an average number of days listed on the Multiple Listing Service (MLS). This home qualified for a paired sales analysis and was studied in Group 1 (2017 sale), and in Group 3 (2020 sale), as detailed on subsequent pages. Because this home traded in an atypically motivated transaction in 2016, we have not included it in a Before and After analysis.

Adjoining Property 54, located at 10009 375th Street, sold in July 2019 for \$260,500, or \$137.83 per square foot of finished living area. The home is a split-level style house on 5.0 acres. The improvements on this property are located approximately 352 feet from the nearest solar panel. This home qualified for a paired sales analysis and was studied in Group 1, as detailed on subsequent pages. We have also studied this property in a Before and After analysis later in this report as it also sold in 1999, prior to construction of the North Star solar farm.

Paired Sales Analysis

Group 1

We analyzed three split-level homes that sold between 2016 and 2017 that were located adjacent to the North Star solar farm.

North Star Solar Test Area Sales - Group 1									
Adj. Property #	Address	Sale Price	Site Size (AC)	Beds	Baths	Year Built	GLA (SF)	Sale Date	Price PSF
52	10505 367th St	\$260,500	5.00	3	2	1999	1,890	Aug-16	\$137.83
42	10200 367th St	\$330,000	9.30	4	3	2003	2,172	Nov-17	\$151.93
46	10132 367th St	\$333,000	9.31	4	3	2001	2,108	Oct-17	\$157.97
Median		\$330,000	9.30	4	3	2001	2,108	Oct-17	\$151.93

Throughout our analysis we have relied on square footage data from the Chisago County Assessor's office for home sizes. We have included above-grade and finished below-grade square footage in our calculations as the market in this area considers finished square feet on every level to be livable. Split-level homes and those with basements or walkout basements are prevalent in this area. We note that the square footage for Adjoining Property 42 is shown on the MLS real estate listing from 2017 as being 2,350, we have utilized the Assessor's livable square footage of 2,172 in our analysis.

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We analyzed 11 Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sales, that were not located in close proximity to the solar farm.

The Control Area Sales for Group 1 are split-level homes with either 3 or 4 bedrooms and 1.5 to 4 bathrooms. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions.

When adjusting sale prices for market conditions (time between date of Test Area Sale and Control Area Sale date) throughout this analysis we have used regression analysis to identify the appropriate monthly market conditions adjustment. We utilized the Federal Housing Finance Agency House Price Index (FHFA HPI) for the zip code 55056, the zip code of all Test Area and Control Area Sales, for the compounded monthly rate of appreciation. The FHFA HPI is a broad measure of the movement of single-family house prices. The FHFA HPI is a weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or refinancings on the same properties. The FHFA HPI serves as a timely, accurate indicator of house price trends at various geographic levels.⁶ We adjusted Group 1 Control Area Sales using the FHFA HPI for the period from 2016 through 2017.

The results of our analysis for Group 1 are presented below.

CohnReznick Paired Sale Analysis North Star Solar Group 1		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (3)	Adjoining solar farm	\$151.93
Control Area Sales (11)	No: Not adjoining solar farm	\$139.50
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		8.91%

We note a somewhat large positive difference in adjusted median price per square foot between the median of the Test Area Sales and the Control Area Sales. The price differential is likely attributable to the larger parcel sizes of the Test Area Sales, which range from 5.00 acres to 9.31 acres. The Control Area Sales home sites range from to 2.29 to 7.10 acres, with a median of 5.0 acres. Control Area Sales with lot sizes that bracketed the

⁶ <https://www.fhfa.gov/DataTools/Downloads/Pages/House-Price-Index.aspx>

Test Area Sales on the high side did not transact during the period studied but the properties are considered comparable. **The sale prices of Adjoining Properties in Group 1 were not negatively impacted by the homes' proximity to the North Star solar farm.**

We note that the median unit sale price of the most recent sales of each of the excluded adjoining properties identified previously is \$141.44 per square foot. As indicated above, the included Test Area Sales have a median unit price of \$151.93 per square foot. Inclusion of the excluded adjoining property sales would not have made a conclusive impact on the conclusions of the paired sale analysis.

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Group 2

We analyzed Adjoining Property 18, a single-story, rambler style home that sold in 2017.

North Star Solar Test Area Sale - Group 2									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median GLA (SF)	Median Sale Date	Median Price PSF
18	37096 Little Oak Ln	\$289,000	2.07	4	3.0	2001	2,412	Apr-17	\$119.82

We analyzed 10 Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, that were not located in close proximity to the solar farm.

Adjoining Property 18 sits on a somewhat small lot for the home size in this area. So as to capture homes that bracket the Test Area Sale home size, those ranging from 2,314 square feet to 3,371 square feet of finished living area (including finished basements), the parameters of our search for Control Area Sales were widened to include lot sizes between 1 and 10 acres.

The Control Area Sales for Group 2 are rambler style homes with 4 bedrooms and 2 to 4 bathrooms on less than 10-acre parcels. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2016 through 2018.

CohnReznick Paired Sale Analysis North Star Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$119.82
Control Area Sales (10)	No: Not adjoining solar farm	\$118.72
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		0.92%

Noting no significant price differential, it does not appear that the North Star solar farm had any negative impact on adjacent property value in Group 2.

Group 3

Adjoining Property 46 was analyzed as a 2017 sale in Group 1 and sold again most recently in December 2020. While this sale is not yet published in the Chisago County Assessor’s data, the sale has been recorded in the public record and the MLS.



Photo of 10132 367th Street (Adjoining Property 46) with view of solar arrays from 2020 MLS listing

North Star Solar Test Area Sale - Group 3									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median GLA (SF)	Median Sale Date	Median Price PSF
46	10132 367th St	\$415,000	9.31	4	3.0	2001	2,108	Dec-20	\$196.87

We analyzed six Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Test Area Sale, that were not located in close proximity to the solar farm.

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The Control Area Sales for Group 3 are split-level style homes with 4 bedrooms and 2 or 3 bathrooms on one to ten acre parcels. We excluded sales that were bank-owned, those between related parties, or others under duress as non-arm's length transactions. We adjusted the Control Area Sales for market conditions using the compounded monthly growth rate exhibited in the FHFA House Price Index, for the period from 2018 through 2019 (the most recent data available). The results of our analysis are presented below.

CohnReznick Paired Sale Analysis North Star Solar Group 3		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$196.87
Control Area Sales (6)	No: Not adjoining solar farm	\$139.60
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		41.02%

We note that the sale price of the 2020 sale of Adjoining Property 46 is the highest for this home type (split-level) in all the County Assessor data from 2016 to 2020 for North Branch Township. However, the selling broker, Candace Rindahl, remarked that the price was market for the area at the time of sale. We see this in a study of the rate of appreciation over the course of three years between the prior sale and most recent sale. Adjoining Property 46 appreciated at a faster rate than the local area, as seen in the following table.

Test Area Sale										55056 Zip Code FHFA Housing Price Index Change	
Property ID	Address	Land Area (Acres)	Total Finished Living Area (SF)	Most Recent Sale Date	Most Recent Sale Price	Prior Sale Date	Prior Sale Price	Total Appreciation	Monthly Appreciation Rate	Total Appreciation	Monthly Appreciation Rate
AP 46	10132 367th St	9.31	2,108	12/20/20	\$415,000	10/20/17	\$333,000	24.62%	0.58%	17.43%	0.42%

We note a somewhat large positive difference in adjusted median price per square foot between the Test Area Sale and the Control Area Sales. The most comparable Control Area Sale, Control Area Sale 5 (6836 410th Street), sold for an adjusted sale price per square foot of \$182.74 a difference of 7.2 percent to the unit sale price of the Test Area Sale. We find that on a macro and micro level of analysis, **the sale price of Adjoining Property 46 (Group 3) was not negatively impacted by its proximity to the North Star solar farm.**

The differential between the Test Sale and the Control Sales is much higher than any of our other studies; we have considered this to be an outlier. While the indication shows that the adjacent solar farm has not negatively

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impacted the property value for this home, we have considered that this house has “set the market” for this kind of property type (home style, age and acreage) – we believe that this differential will likely stabilize in the near future as other homes catch up to the appreciation shown by Adjoining Property 46. Thus, we have not included this Group in the collection of impact studies in our conclusion.

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A Repeat Sales Study (Before and After Construction of the Solar Farm Analysis)

In a 2017 study conducted by Chisago County Assessor John Keefe, Keefe analyzed the sales of 15 parcels alongside or near the North Star Solar Farm that sold between January 2016 and October 2017. Based on trends exhibited by 750+ sales throughout the county, Keefe concluded that the homes, located on 375th, 367th, Keystone, Little Oak, Lincoln Trail, and Kost Trail were all “in excess of assessed” and reported that “valuation hasn’t suffered.”⁷

⁷ <https://www.cleanenergyresourceteams.org/chisago-county-boards-real-estate-update-shows-solar-has-no-impact-property-values>

Considering Keefe’s 2017 study, we conducted a supplemental analysis in which we compared the sale prices of the three homes sold in Group 1 that are adjacent to the North Star Solar Farm (Test Area Sales Group) to the previous sale price of the home, commonly known as a “Repeat Sales Analysis” utilizing a sale and resale of the same property. These sales reflect the average site size, home type, and home size of properties in the surrounding area. In our comparison for each property analyzed, we calculated the total appreciation between each sale, the number of months that elapsed between each sale, and determined the monthly appreciation rate for the property. We then compared the extracted monthly appreciation rates to the change in the Federal Housing Finance Agency (FHFA) Home Price Index in Minnesota’s 55056 zip code (where the studied homes are located) over the same period. The index for zip codes is measured on a yearly basis and is presented to the right.

We conducted the same analysis for seven single-family properties that are not within proximity to the North Star Solar Farm, that were within the Group 1 Control Area Sales. The tables on the following page present this study.

There was one home in the Test Area Sales group that experienced negative appreciation (Adjoining Property 18, 37096 Little Oak Lane) from when it sold first in 2006 to the most recent sale in 2017. There was also one home in the Control Area Sales group that experienced negative appreciation (G1-2, 5183 366th Street) from when it sold first in 2007 to the most recent sale in 2016. During the calendar years of 2005, 2006 and 2007, housing prices in the United States were reaching their peak. In 2006 the HPI reached 251.83, a record at that time. Post-recession homes prices, after 2008 did not recover to the same or higher levels until 2019 and 2020. When the homes sold in 2017 and 2016, respectively, the housing market had not fully recovered in the area and the negative appreciation tracks with the overall market conditions, illustrated in the red boxes in the table to the right.

55056 Zip Code - Housing Price Index Change (Year Over Year) Not Seasonally Adjusted			
Year	Annual Index	Annual Change (%)	Compounded Monthly Change (%)
1991	100.00		
1992	101.15	1.15%	0.10%
1993	105.00	3.81%	0.31%
1994	110.54	5.28%	0.43%
1995	121.51	9.92%	0.79%
1996	127.27	4.74%	0.39%
1997	134.29	5.52%	0.45%
1998	141.08	5.06%	0.41%
1999	149.86	6.22%	0.50%
2000	169.13	12.86%	1.01%
2001	187.18	10.67%	0.85%
2002	200.83	7.29%	0.59%
2003	212.82	5.97%	0.48%
2004	226.83	6.58%	0.53%
2005	246.73	8.77%	0.70%
2006	251.83	2.07%	0.17%
2007	243.35	-3.37%	-0.29%
2008	223.07	-8.33%	-0.72%
2009	196.72	-11.81%	-1.04%
2010	179.99	-8.50%	-0.74%
2011	163.09	-9.39%	-0.82%
2012	155.38	-4.73%	-0.40%
2013	165.02	6.20%	0.50%
2014	175.59	6.41%	0.52%
2015	187.02	6.51%	0.53%
2016	203.03	8.56%	0.69%
2017	220.28	8.50%	0.68%
2018	235.98	7.13%	0.58%
2019	248.44	5.28%	0.43%
2020	258.67	4.12%	0.34%

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Test Area Sales Group											55056 Zip Code - FHFA Housing Price Index			
Property ID	Address	Land Area (Acres)	Total Finished Living Area (SF)	Most Recent Sale Date	Most Recent Sale Price	Prior Sale Date	Prior Sale Price	Total Appreciation	Months Elapsed Between Sales	Monthly Appreciation Rate	Index Level During Year of Most Recent Sale	Prior Sale Year Index Level	Total Appreciation	Monthly Appreciation Rate
AP 54	10505 367th Avenue	5.00	1,890	8/19/2016	\$260,500	4/30/1999	\$123,294	111.28%	208	0.36%	203.03	149.86	35.48%	0.15%
AP 22	11210 367th Street	5.20	3,756	3/31/2015	\$280,000	12/19/2003	\$107,000	161.68%	135	0.71%	187.02	212.82	-12.12%	-0.10%
AP 18	37096 Little Oak Lane	2.10	2,412	4/11/2017	\$289,000	1/27/2006	\$308,000	-6.17%	134	-0.05%	220.28	251.83	-12.53%	-0.10%
AP 3	10009 375th Street	5.10	1,040	7/12/2019	\$260,000	3/4/2005	\$163,000	59.51%	172	0.27%	248.44	246.73	0.69%	0.00%
<i>Median - Test Area Sales</i>		<i>5.05</i>	<i>2,151</i>							<i>0.32%</i>				<i>0.02%</i>

Control Area Sales Group											55056 Zip Code - FHFA Housing Price Index			
Property ID	Address	Land Area (Acres)	Total Finished Living Area (SF)	Most Recent Sale Date	Most Recent Sale Price	Prior Sale Date	Prior Sale Price	Total Appreciation	Months Elapsed Between Sales	Monthly Appreciation Rate	Index Level During Year of Most Recent Sale	Prior Sale Year Index Level	Total Appreciation	Monthly Appreciation Rate
G1-1	10589 Wilcox Road	5.00	1,900	7/6/2016	\$262,500	9/26/2007	\$223,700	17.34%	105	0.15%	203.03	243.35	-16.57%	-0.17%
G1-2	5183 366th Street	2.29	1,530	7/28/2016	\$227,708	4/13/2007	\$207,000	10.00%	112	0.09%	203.03	243.35	-16.57%	-0.16%
G1-3	4359 Elk Court	2.50	1,970	1/20/2017	\$263,000	11/25/1998	\$175,365	49.97%	218	0.19%	220.28	141.08	56.14%	0.20%
G1-4	39088 More Ferry Road	5.00	1,838	1/27/2017	\$229,000	9/29/2005	\$185,000	23.78%	136	0.16%	220.28	246.73	-10.72%	-0.08%
G1-7	4737 377th Street	2.50	2,002	6/28/2017	\$230,000	7/20/1999	\$138,400	66.18%	215	0.24%	220.28	149.86	46.99%	0.18%
G1-8	8628 380th Street	5.00	1,842	7/6/2017	\$275,000	4/23/2010	\$203,000	35.47%	86	0.35%	220.28	179.99	22.38%	0.23%
G1-9	6417 360th Street	5.00	2,346	7/7/2017	\$325,009	5/16/2008	\$270,000	20.37%	110	0.17%	220.28	223.07	-1.25%	-0.01%
<i>Median - Control Area Sales</i>		<i>5.00</i>	<i>1,900</i>							<i>0.17%</i>				<i>-0.01%</i>

Most home sites outside of a subdivision in this area are within the 2.00- to 5.00-acre range, as shown in the Control Area Sales table on the prior page. The median gross living area for each group differs by less than 50 square feet of living area. The analysis described in this section, however, does not require us to make adjustments to the sales as we are only evaluating the difference in appreciation rates between a sale and resale of the same property.

As mentioned earlier in the report, Adjoining Property 3, (10009 375th Street), sold most recently in July 2019 for \$260,000 and also sold in March 2016 for \$219,900, during construction of the solar farm. The home sold first in 2005 for \$163,000. We have excluded the 2016 from our analysis because we cannot separate any influence from solar farm construction on the sale price at that time.

Conclusion

When compared to the FHFA home price index for the local zip code, the median monthly appreciation rate of the Test Area Sales group and the Control Area Sales group both outperformed the average for the zip code, as depicted in the far-right column in the tables on the prior page. As such, we concur with Assessor Keefe's conclusion that there does not appear to be a consistent detrimental impact on properties adjacent to the North Star Solar Farm.

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SOLAR FARM 2: DOMINION INDY SOLAR III, MARION COUNTY, IN

Coordinates: Latitude 39°39'14.16"N, Longitude 86°15'35.06"W

PIN: 49-13-13-113-001.000-200

Total Land Size: 129.04 acres

Date Project Announced: August 2012

Date Project Completed: December 2013

Output: 8.6 MW AC (11.9 MW DC)



Aerial imagery retrieved from Google Earth

Overview and Surrounding Area:

The Dominion Indy III Solar Farm was developed by Dominion Renewable Energy and became operable in December 2013. This solar farm has ground-mounted solar panels and has the capacity for 8.6 Megawatts (MW) AC of power. The panels are mounted in a fixed tilt fashion with 12 inverters.

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The Dominion Indy III solar farm is located in Decatur Township, in the southwest portion of Marion County, Indiana. The solar farm is approximately 10 miles southeast of the Indianapolis International Airport and approximately eight and a half miles from the center of Indianapolis.

The Immediate Area:

The solar installation is on the southern side of West Southport Road. Adjoining parcels to the west, south, and east are agricultural in nature, actively farmed primarily with row crops and large areas of mature trees. There is one single family home on 4.78 acres of land at the northwest corner of the solar site, with frontage on West Southport Road, identified in our analysis as Adjoining Property 9.

To the north, across West Southport Road from the solar site, is the single-family residential subdivision known as Crossfield. Originally developed with over 81 acres of land by the Key Life Insurance Company, the one- and two-story homes in the subdivision were built between approximately 1998 and 2011.

All of the adjacent land parcels to the solar farm are used for agricultural or residential purposes.

The solar farm is surrounded by a chain link fence that contains all the solar panels. Additionally, there are some natural shrubs and deciduous trees on all sides of the property; this vegetation was in place before the solar farm was developed.

Prior Use: Agricultural use

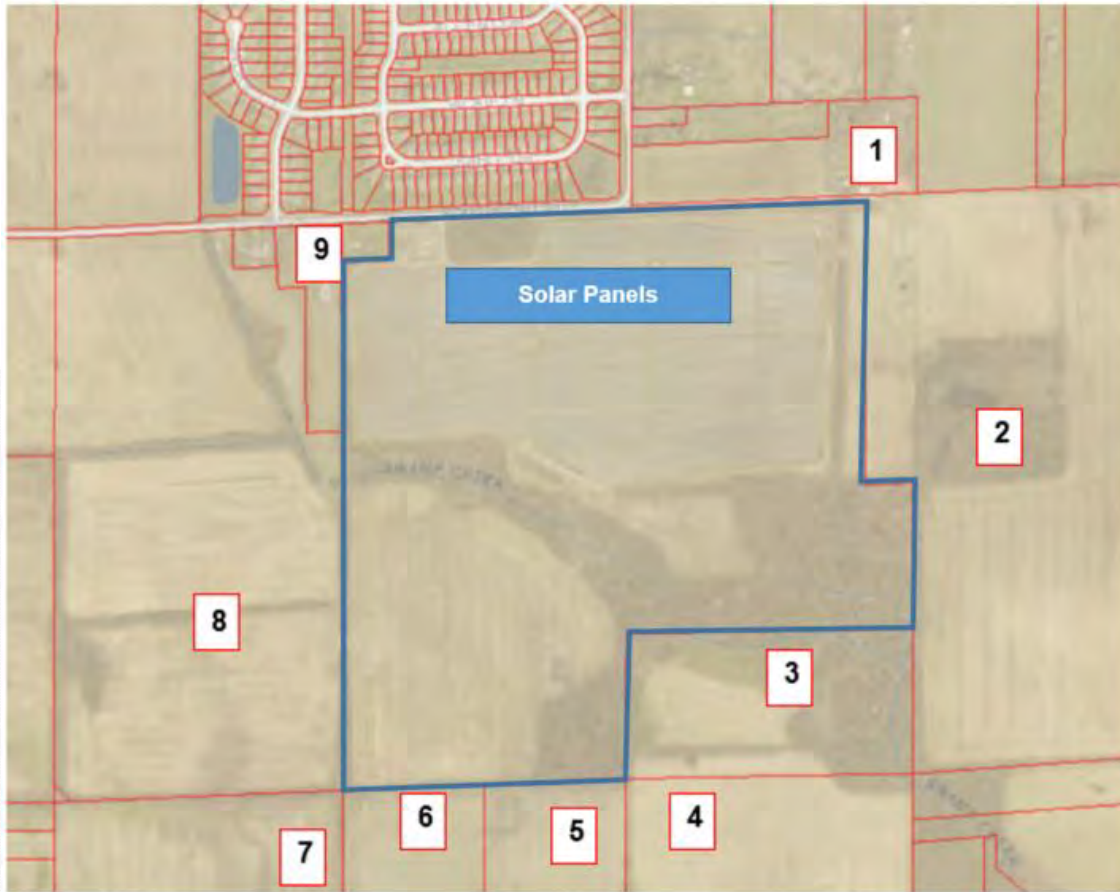
Real Estate Tax Information: Prior to development of the solar farm, in 2013, the owner of this 129-acre site paid real estate taxes of \$1,788 annually. After development of the solar farm development, in 2015, real estate taxes increased to approximately \$16,405, an 818 percent increase in tax revenue for the site.

PIN	Acres	2013 Taxes Paid	2015 Taxes Paid	Tax Increase	2013 Assessed Value	2015 Assessed Value	Value Increase
Marion County, IN 49-13-13-113-001.000-200	129.04	\$ 1,788	\$ 16,405	818%	\$ 89,400	\$ 109,900	23%
TOTAL	129.04	\$ 1,788	\$ 16,405	818%	\$ 89,400	\$ 109,900	23%

Paired Sale Analysis:

The maps on the following pages display the parcels within the solar farm is located (outlined in blue). Properties adjoining this site are numbered for subsequent analysis.

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Dominion Indy III - Adjoining Properties

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Dominion Indy III - Adjoining Properties

We have considered two types of paired sales analysis with regards to the Dominion Indy III Solar Farm. The first compares sales of Adjoining Properties to the solar farm after the completion of the solar farm site (Test Area Sales) to similar properties not proximate to the solar farm (Control Area Sales). We utilized this type of paired sale analysis for all three Groups of Adjoining Properties under study.

The second type of paired sale analysis is known as a Before and After analysis which compares sales of Adjoining Properties that occurred prior to the announcement of the solar farm with the sales of the same Adjoining Properties after the completion of the solar farm development. We were able to use home sale data from the Crossfield subdivision that is located to the north of the solar site, across West Southport Road.

Group 1 – Agricultural Land

Adjoining Property 2 is a vacant 86.96-acre agricultural parcel located to the east of the solar site. Adjoining Property 2 sold in October 2017 and was considered for a paired sale analysis, known as a Test Area Sale, in Group 1.

The property line of this unimproved parcel is approximately 166 feet from the closest solar panel. The following table outlines the other important characteristics of Adjoining Property 12.

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Test Area Sale								
Group 1 - Agricultural Land								
Adjoining Property #	Address	Sale Price	Site Size (AC)	NCCPI Index	Wetlands	Floodplain	Sale Price/AC	Sale Date
Adjoining Property 2	5755 W Southport Rd, Indianapolis, IN	\$738,584	89.96	63.4	1%	Zone X	\$8,210	Oct-17

Crop yields have been the basis for establishing a soil productivity index, and are used by county assessors, farmers, and market participants in assessing agricultural land. While crop yields are an integral part in assessing soil qualities, it is not an appropriate metric to rely on because “yields fluctuate from year to year, and absolute yields mean little when comparing different crops. Productivity indices provide a single scale on which soils may be rated according to their suitability for several major crops under specified levels of management such as an average level.” The productivity index, therefore, not crop yields, is best suited for applications in land appraisal and land-use planning.

The United States Department of Agriculture’s (USDA) National Resources Conservation Services (NRCS) developed and utilizes the National Commodity Crop Productivity Index (NCCPI) as a national soil interpreter and is used in the National Soil Information System (NASIS), but it is not intended to replace other crop production models developed by individual states.⁸ The focus of the model is on identifying the best soils for the growth of commodity crops, as the best soils for the growth of these crops are generally the best soils for the growth of other crops.⁹ The NCCPI model describes relative productivity ranking over a period of years and not for a single year where external influences such as extreme weather or change in management practices may have affected production. At the moment, the index only describes non-irrigated crops, and will later be expanded to include irrigated crops, rangeland, and forestland productivity.¹⁰

Yields are influenced by a variety of different factors including environmental traits and management inputs. Tracked climate and soil qualities have been proven by researchers to directly explain fluctuations in crop yields, especially those qualities that relate to moisture-holding capacity. Some states such as Illinois have developed a soil productivity model that considers these factors to describe “optimal” productivity of farmed land. Except for these factors, “inherent soil quality or inherent soil productivity varies little over time or from place to place for a specific soil (map unit component) identified by the National Cooperative Soil Survey (NCSS).”¹¹ The NRCS Web

⁸ Agricultural land rental payments are typically tied to crop production of the leased agricultural land and is one of the primary reasons the NCCPI was developed, especially since the model needed to be consistent across political boundaries.

⁹ Per the User Guide for the National Commodity Crop Productivity Index, the NCCPI uses natural relationships of soil, landscape and climate factors to model the response of commodity crops in soil map units. The present use of the land is not considered in the ratings.

¹⁰ AgriData Inc. Docs: [http://support.agridatainc.com/NationalCommodityCropProductivityIndex\(NCCPI\).ashx](http://support.agridatainc.com/NationalCommodityCropProductivityIndex(NCCPI).ashx)

¹¹ USDA NRCS’s User Guide National Commodity Crop Productivity Index (NCCPI)

Soil Survey website has additional information on how the ratings are determined. The **State of Indiana** does not have its own crop production model and utilizes the NCCPI.

In analyzing agricultural land sales for Control Area Sales with similar characteristics to Adjoining Property 12, we have excluded any parcels with NCCPI soil indices less than 50.0 and greater than 85.0.

We identified and analyzed four Control Area Sales that were comparable in location, size, and use that were not located in close proximity to the solar farm. The Control Area Sales for Adjoining Property 2 are land tracts that were larger than 20 acres and utilized specifically as farmland. We excluded sales that were bank-owned, those between related parties, split transactions, and land with significant improvements.

The Control Area Sales were adjusted for market conditions using a regression and trend analysis to identify the appropriate monthly market condition adjustment. Using the agricultural land sale data published in the *Land Sales Bulletin*,¹² from January 2016 through December 2017, which includes reliable and credible data for analysis, we extracted a monthly rate of change of 0.50 percent.

The results of our analysis for Adjoining Property 2, in Group 1 is presented below.

CohnReznick Paired Sale Analysis Dominion Indy III Solar Group 1 - Agricultural Land		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per Acre
Test Area Sale (Adjoining Property 2)	Yes: Solar Farm was completed by the sale date	\$8,210
Control Area Sales (4)	No: Not adjoining solar farm	\$8,091
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		1.47%

It is noted that we have kept this analysis within our study despite it being the sole land-only analysis. While we have not tabulated the difference in our reconciled average of variance (from study to study), this is important because it shows that agricultural land adjacent to solar but also lying in the future path of development does not show any degradation of value.

Noting the relatively low price differential, in which the Test Area Sale was higher than the median for the Control Areas Sales, it does not appear that the Dominion Indy III solar farm had any negative impact on the adjoining agricultural property values.

¹² <https://www.landsalesbulletin.com/>

We identified a total of nine Adjoining Properties that sold after the development of the solar farm as single-family home uses. Adjoining Properties 11, 13, 14, 15, 18, 20, 22, 24 and 26 were analyzed in two paired sales analyses (Group 2 and Group 3). These nine properties were analyzed as single-family homes and they are located in the Crossfield subdivision, across West Southport Road from the solar site, as seen in the prior aerials.

It should be noted that Adjoining Properties 11 and 24 have sold more than once since the solar farm was constructed, and each sale is included in the analysis. Adjoining Property 11 sold first in December 2015 and later in July 2018, approximately two and a half years later. Adjoining Property 24 sold first in February 2014 and later in April 2019, approximately five years later. Our research indicated that these were arm's-length sales between typically motivated buyers and sellers.

The nine Adjoining Properties that were included in our paired sales analysis were divided into two groups, based on the sale dates of the Test Area Sales.

Group 2

For Group 2 (sales in 2014 – 2016), we analyzed four Control Area Sales with similar location, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Group 2 Test Area Sales described below.

Dominion Indy III Solar Test Area Sales Group 2									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
11, 20, 22, 24	5933 Sable Dr, 5829 Sable Dr, 5813 Sable Dr, 5737 Sable Dr	\$129,375	0.23	4	2.0	2008	2,163	Jul-15	\$59.10

The Test Area Sales in Group 2 are located between 230 feet and 404 feet from the house to the solar panels. The Control Area Sales for Group 2 are located beyond this area in other areas of the Crossfield subdivision and in other nearby subdivisions. The Control Area Sales did not have a view of the solar farm.

Group 3

For Group 3 (sales in 2017 - 2019), we analyzed a set of seven Control Area Sales with similar locations, square footages, lot sizes, and ages that sold within a reasonable time frame from the median sale date of the Group 3 Test Area Sales described on the next page.

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Test Area Sales Group 3									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
11, 13, 14, 15, 18, 24, 26	5933 Sable Dr, 5921 Sable Dr, 5921 Sable Dr, 5915 Sable Dr, 5909 Sable Dr, 5841 Sable Dr, 5737 Sable Dr, 5731 Sable Dr	\$169,900	0.23	3	2.5	2006	2,412	Jul-18	\$72.15

The Test Area Sales in Group 3 are located between 227 feet and 419 feet from the house to the solar panels. The Control Area Sales are located beyond this area, in other areas of the Crossfield Subdivision, and in other nearby subdivisions. The Control Area Sales did not have a view of the solar farm.

Control Area Sales in Groups 2 and 3 were adjusted for market conditions using a regression analysis to identify the appropriate monthly market condition adjustment. The results of our study are presented below.

CohnReznick Paired Sale Analysis Dominion Indy III Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (4)	Adjoining solar farm	\$59.10
Control Area Sales (8)	No: Not adjoining solar farm	\$57.84
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		2.18%

CohnReznick Paired Sale Analysis Dominion Indy III Solar Group 3		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (7)	Adjoining solar farm	\$72.15
Control Area Sales (11)	No: Not adjoining solar farm	\$71.69
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		0.65%

The Test Area Sales for Group 2 sold with a median of 33 days on market, while the Control Area Sales for Group 2 sold with a median of 31 days on market. The Test Area Sales for Group 3 sold with a median of 17

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days on market, while the Control Area Sales for Group 3 sold with a median of 25 days on market. There is no **significant negative marketing time differential**.

Noting the relatively low price differentials, it does not appear that the Dominion Indy III solar farm had any negative impact on adjoining residential property values.

Before Announcement and After Construction of the Solar Farm Analysis:

Due to the number of sales over time in the Crossfield subdivision, we were able to conduct an analysis on the unit prices of single-family homes before the solar farm announcement date in comparison to the prices of single-family homes after the construction of the Dominion Indy III solar farm. We have provided our conclusions from the data below and the following page contains a chart with the data.

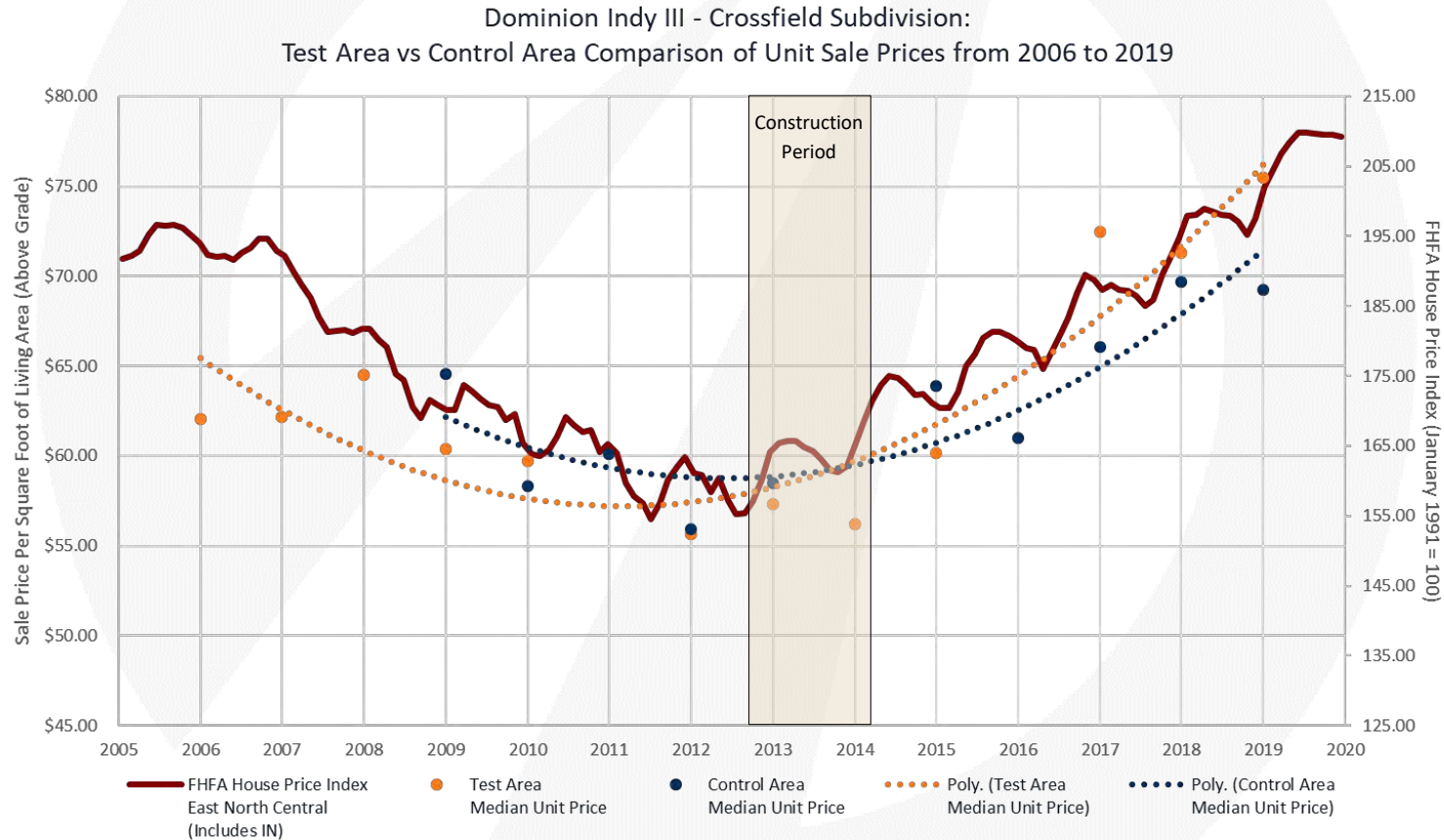
- 25 Test Area Sales were sold from 2006 to 2019 and 46 Control Area Sales sold from 2008 to 2019.
 - The Test Area Sales are homes located adjoining the Dominion Indy III Solar Farm in the Crossfield subdivision.
 - The Control Area Sales are homes located in the remainder of the Crossfield subdivision, not adjoining the solar farm.
- In both the Test Area Sales (ORANGE) and Control Area Sales (BLUE) plotted on the chart on the following page, new construction homes sold through 2011, prior to announcement of the solar farm.
- The dotted lines are polynomial trend lines plotted by Microsoft Excel in order to illustrate and approximate the “average” trend of each set of data.
- The economic climate improved in the period from 2013 to 2019 as shown by the Red line representing the Federal Housing Finance Agency’s House Price Index for the East North Central region that includes Indiana. After construction of the solar farm, in parallel with the improving economic climate, it appears that unit prices for both the Test Area Sales and the Control Area Sales appreciated at a similar rate over the period from 2013 to 2019.

A difference in appreciation rates does not appear to exist between Test Area Sale homes versus the Control Area Sale homes.

Sale prices of single-family homes after the construction of the solar farm exhibit a similar appreciation trend as sales prior to the solar farm announcement. Overall, our findings indicate that there *is not a consistent and measurable difference* in prices that exists in association with homes proximate to the Dominion Indy III solar farm.

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Before Announcement and After Construction of the Solar Farm Analysis:



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SOLAR FARM 3: DOUGHERTY SOLAR, DOUGHERTY COUNTY, GEORGIA

Coordinates: Latitude 31.305614, Longitude 84.022637

PIN: 00144/00001/03D, 00120/00001/007,00146/00001/01B

Total Land Size: ±1,037.42 Acres

Date Project Announced: August 2018

Date Project Completed: November 2019

Output: 120 MW AC



Aerial imagery retrieved from Google Earth

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The 120 MW AC capacity, Dougherty Solar project was developed by NextEra in 2019. This solar site is expected to generate \$10 million in tax revenue over its lifetime. The project sits on a ±1,037.42-acre site which was a former agricultural land site. Georgia Power signed a 30-year Power Purchase Agreement with NextEra Energy to buy the solar generated power and NextEra Energy owns and maintains the installation. The solar facility consists of 5,232 rows of support beams for 440,535 solar panels.

The Surrounding Area: The Dougherty County Solar project is located in unincorporated Dougherty County, with a city of Albany mailing address, Georgia. Georgia Route 3 (Liberty Expressway) is approximately 4.5 mile west of the solar site, and connects the surrounding area to downtown Albany, which is approximately 8 miles northwest of the solar site. We note the nearest interstate, Interstate 75, is approximately 31 miles east of the solar site. The surrounding area is rural in nature with agricultural and low density residential uses surrounding the property.

The Immediate Area: Within a one-mile radius of the solar farm, surrounding uses mainly consist of agricultural land, with some single-family homes to the south and the northwest. Adjacent land parcels to the solar farm are mainly residential, with some agricultural uses. Additional surrounding land uses are an industrial use to the southeast of the southern-most panels. The majority of the residential housing is located to the south of the solar site, along Spring Flats Road, with some homes located along Gaisert Road to the northeast.

The solar site is built on a large, mostly flat agricultural site. The site is bounded by Spring Flats Road and Moultrie Road to the south with single family homes along these roads, agricultural land to the west, vacant land to the east, and agricultural land and more single family homes to the north. The adjoining homes sites are all buffered from the solar site by mature trees, bushes, and other shrubbery.

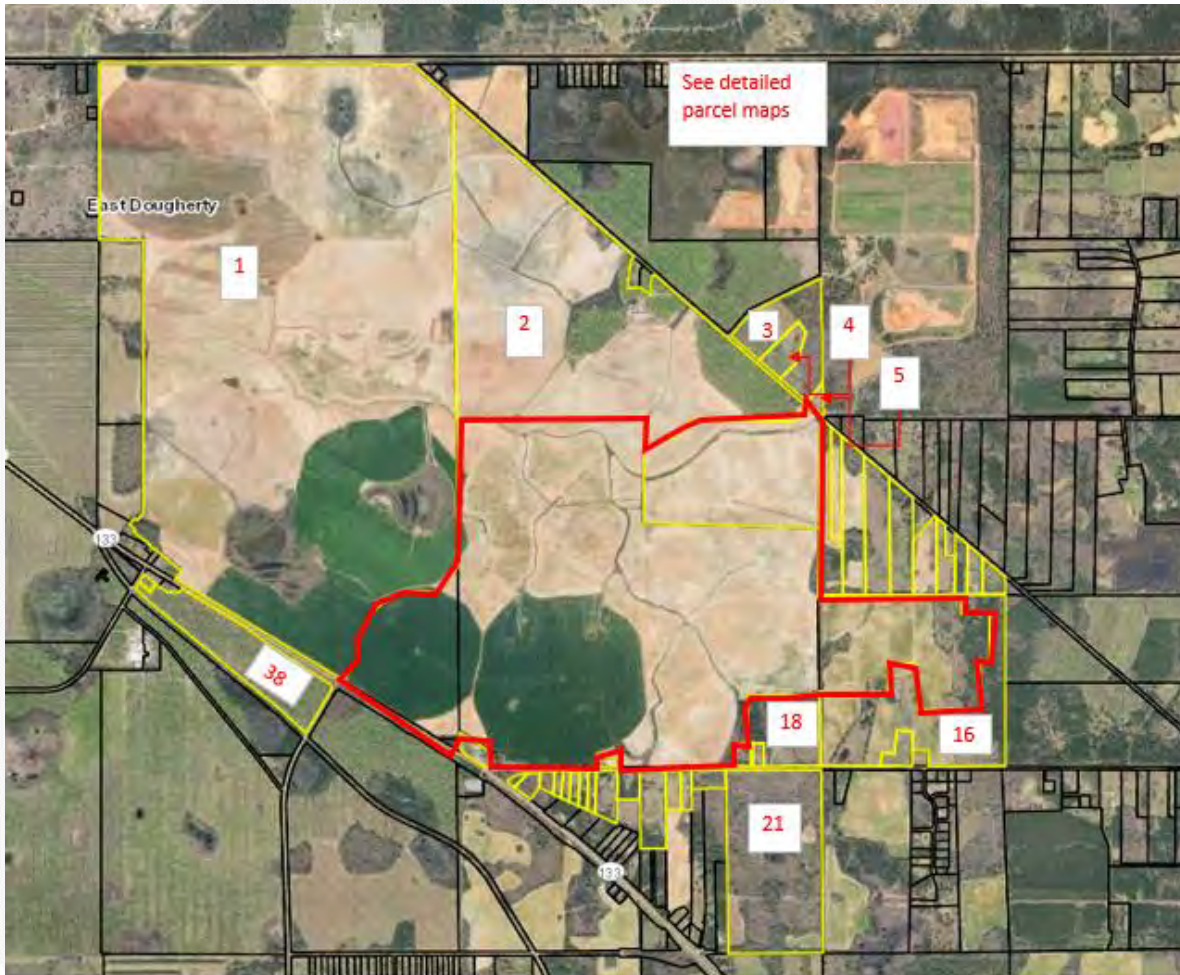
Prior Use: Agricultural use

Real Estate Tax Information: The assessed value in Dougherty County has not changed for the solar parcel since decreased slightly from 2018, prior to the development of the solar farm, to 2020, after the development of the solar farm. We note \$61,000 of this decrease is due to the demolition of existing improvements (Parcel 00120/00001/007). Removing the improvements from the 2018 assessed value only accounts for a decrease of 0.32% from this parcel, although given the solar farm’s recent construction it is possible the site would be reassessed during the next cycle. Historical real estate taxes are not available from Dougherty County public records.

Parcel IDs	Acres	2018 Assessed Value	2020 Assessed Value	Value Increase
Dougherty County				
00144/00001/03D	143.75	\$546,300.00	\$546,300.00	0.00%
00120/00001/007	792.98	\$2,253,000.00	\$2,185,100.00	-3.11%
00146/00001/01B	100.69	\$398,600.00	\$398,600.00	0.00%
Total	1,037.42	\$3,197,900.00	\$3,130,000.00	-2.17%

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The maps below and following display the solar project (parcels outlined in red). Properties adjoining the solar site are outlined in yellow and numbered for subsequent analysis. We note the Dougherty County GIS has not updated its aerial imagery to include the solar panels on the solar site.



Dougherty Solar - Adjoining Properties

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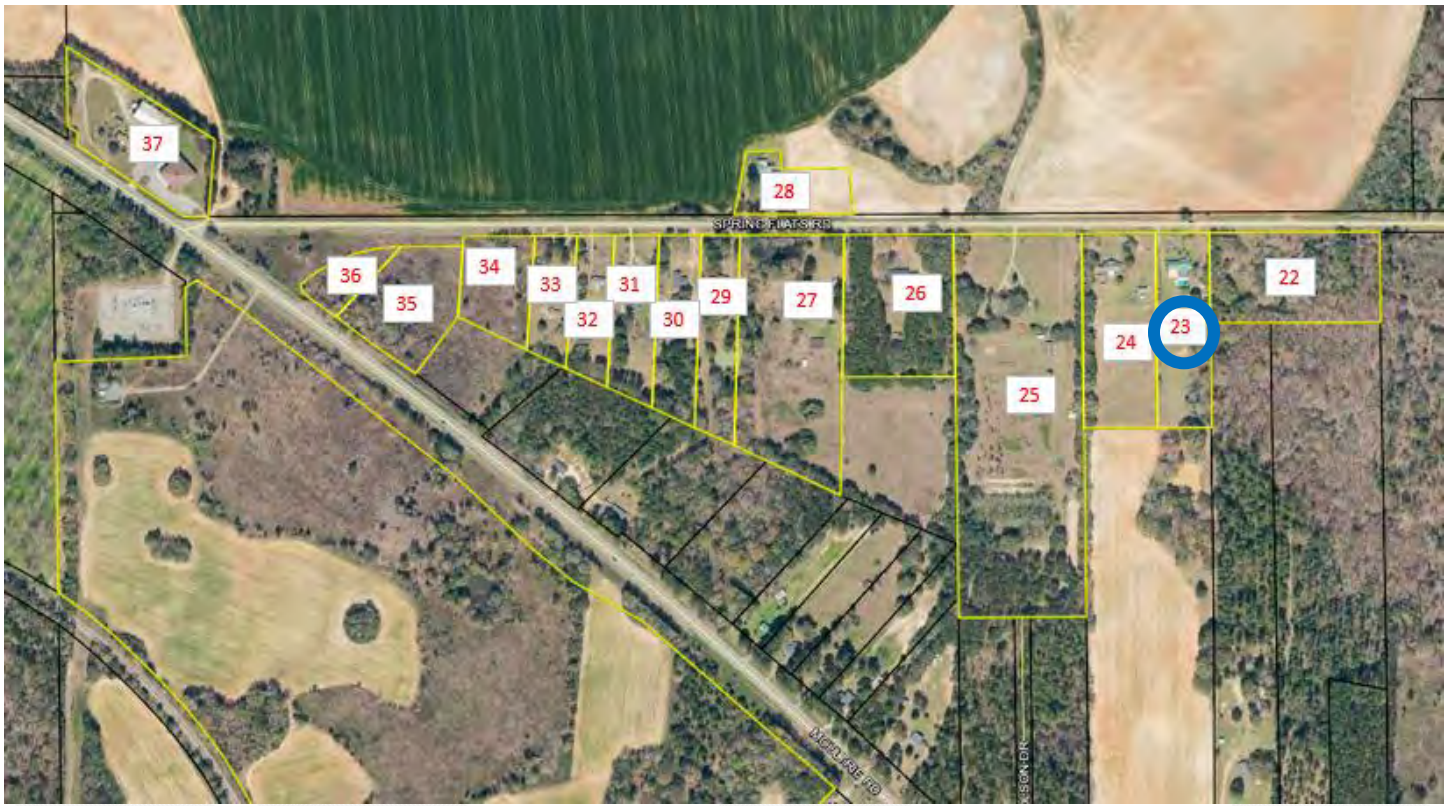
Dougherty Solar - Adjoining Properties

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Dougherty Solar - Adjoining Properties

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Dougherty Solar - Adjoining Properties

Adjoining Properties 1-18, 20, 21, 24-31, 33-38 all sold between August 1973 and September 2019, prior to the date of completion of the subject solar site. These properties have been excluded from further analysis.

We do note Adjoining Property 27 was sold in July 2019, during the construction period of the solar farm. Since it was sold during the construction period, we have excluded it from being considered as a Test Area Sale since we cannot extract the external influence of construction on the sale price. We spoke to the selling broker for this transaction, Christy Wingate, with Parker Real Estate Group. She noted the future presence of the solar farm did not impact the sales price at all. Additionally, she noted in her experience, the presence of a solar farm is neither an attraction nor a deterrant for nearby home buyers. She noted a similar case with a new solar farm in Leesburg, Georgia, which is much smaller than the solar farm under analysis, within a predominately residential area.

Adjoining Property 32 sold in December 2019 and we analyzed it for potential inclusion as a Test Area Sale; however, since the sale was a gift sale with no allocated sales price, we have not analyzed it further since the transaction was not a market transaction.

Adjoining Property 19 was sold in February 2020, however this sale was also a gift sale between family members with no allocated sales price. Therefore we did not analyze it.

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Adjoining Property 22 sold in August 2020 for \$19,500, although according to public records does not note this sale was a “Fair Market Sale.” Additionally, the county GIS marked this sale as unqualified for a market transactions. Therefore, we did not analyze this sale further.

Paired Sales Analysis:

We have considered only one type of paired sales analysis, which compares sales of properties proximate to the solar farm (Control Area) to the sales of adjoining properties after the completion of the solar farm project (Test Area).

We found one adjoining property that qualified for a paired sales analysis. Adjoining Property 23 (Test Area Sale), circled in blue on the previous page, was considered for a paired sales analysis, and sold in June 2020, after the completion of the solar farm. This property was analyzed as single-family home use.

Adjoining Property 23 (Test Area Sale) was considered for a paired sales analysis, and we analyzed this property as a single-family home use, which is a 2,750 square foot home located on a 3.44- acre parcel that sold in June 2020. The property line of this parcel is approximately 202 feet from the closest solar panel, and the improvements are approximately 312 feet from the closest solar panel. The following table outlines the other important characteristics of Adjoining Property 23.

Adjoining Property 23												
Status	Address	City	County	Sale Price	Site Size (AC)	Beds	Baths	Year Built	Square Feet	Improvements	Sale Price/SF	Sale Date
Sold	2916 SPRING FLATS RD	Albany	Dougherty	\$205,000	3.44	4	2.5	1980	2,750	1-Story SFR	\$74.55	Jun-20

We note that Adjoining Property 23 has an in-ground pool. We have found Control Area Sale data through Zillow and verified these sales through county records, conversations with brokers, and the County Assessor’s Office. We excluded sales that were not arm’s length, such as REO sales or those transactions between related parties. We have included only sales with a similar number of bedrooms, bathrooms, and living area, as well as land area. Additionally, we only selected Control Area Sales of single family homes also had an in-ground pool.

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It is important to note that these Control Area Sales are not adjoining to any solar farm, nor do they have a view of one from the property at the time of their sales. Therefore, the announcement nor the completion of the solar farm use could not have impacted the sales price of these properties. It is informative to note that the average and median marketing time (from list date to off market date) for Control Area Sales was 83 days and 119 days, respectively. The Test Area sale had a marketing time of 99 days. This is an indication that the marketability of the Test Area sale was not negatively influenced by proximity to the Dougherty Solar project. The Control Area Sales are comparable in most physical characteristics and bracket Adjoining Property 23 reasonably.

Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The results of the paired sales analysis for the Dougherty Solar project are presented below.

CohnReznick Paired Sales Analysis Dougherty County Solar Facility Adjoining Property 23		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Yes: Adjoining solar farm	\$74.55
Control Area Sales (5)	No: Not adjoining solar farm	\$76.23
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		-2.21%

The difference between the unit price of the Test Area Sale and the Adjusted Median Unit Price of the Control Area Sales is considered within the range for a typical market area. One of the Control Area Sales was 20 years newer than the Test Area Sale. A secondary analysis excluding this sale indicated an adjusted median unit sale price of \$74.47 per square foot, which is in line with the Test Area Sale unit price of \$74.55 per square foot.

Noting no significant price differential, it does not appear that the Dougherty Solar project impacted the sales price of the Test Sale, Adjoining Property 23.

SOLAR FARM 4: MIAMI-DADE SOLAR ENERGY CENTER, MIAMI DADE COUNTY, FL

Coordinates: Latitude 25°38'34.5"N, 80°29'16.5"W

PIN: 30-5813-000-0020

Recorded Owner: Florida Power & Light Company

Total Land Size: 465 acres

Date Project Announced: October 2017

Date Project Completed: January 2019

Output: 74.5 MW AC



2020 Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Miami Dade Solar Energy Center is situated in unincorporated Miami-Dade County, just west of Florida State Road 997. The site comprises approximately 300,000 solar panels on a fixed-tilt system, generating enough energy to power around 15,000 homes.

It is surrounded to the north, west, and south by rural residences and agricultural uses. The Kendall Tamiami Executive Airport is located due east, along the flight path for one of the airport’s runways. A canal runs along the west side of the property, and beyond that is 306 acres of federal government land and four agricultural use lots. The predominant lot size in the surrounding area is approximately five acres and uses vary from palm tree farms, equestrian centers, citrus groves, to rural residences. These lots are zoned GU – Interim District, which categorizes land not otherwise specified in the unincorporated areas of Miami Dade County. This designation allows for uses consistent with the surrounding character, or a density of one residence for every 5 acres.¹³ As such, development is limited to rural residences or agricultural uses

Prior Use: Agricultural use

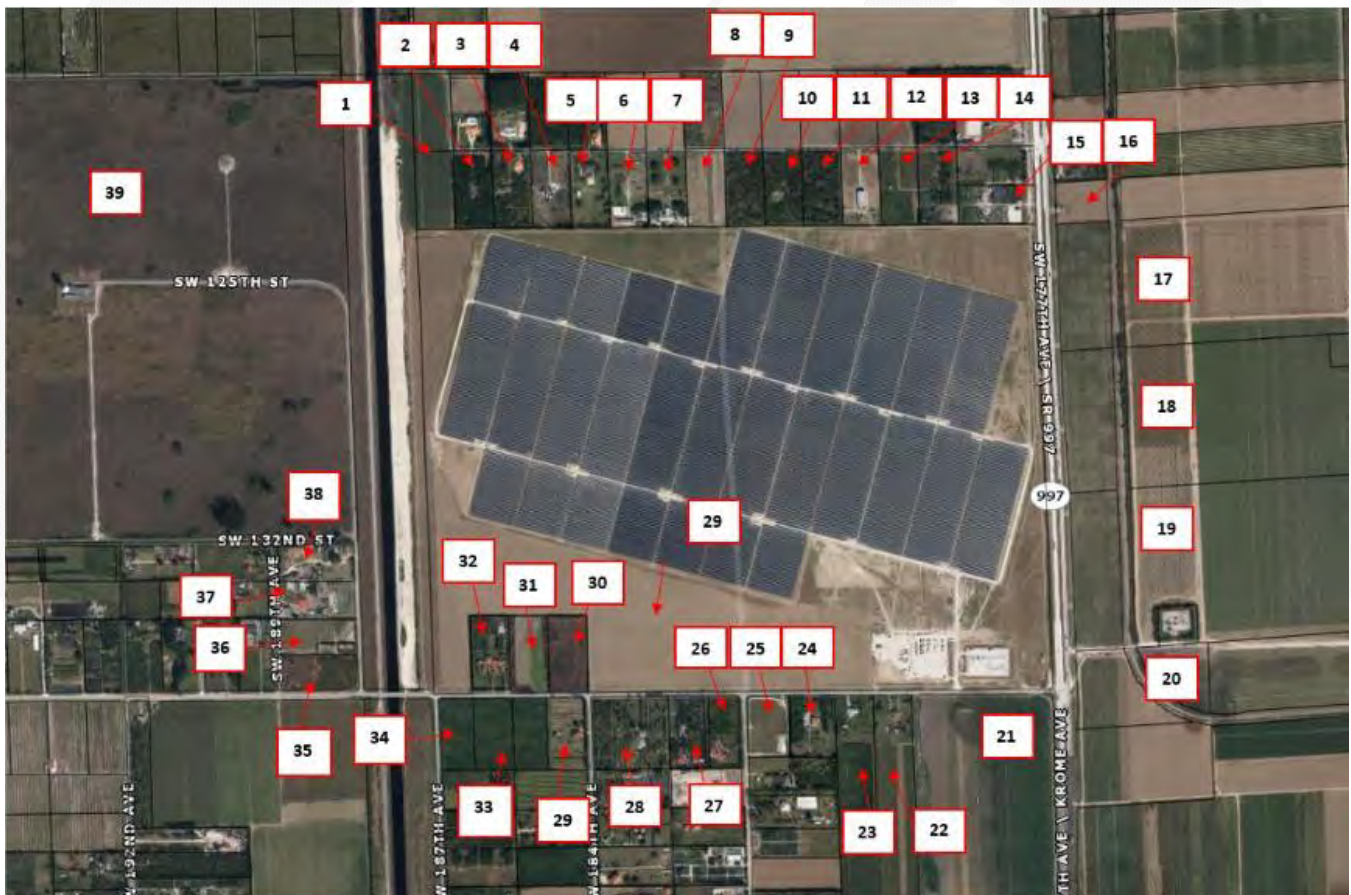
Real Estate Tax Info: The chart below shows the increase from 2018 (before construction) to 2019 (after construction) in the assessed value of the parcels and the total real estate taxes.

PIN	Acres	2018 Taxes Paid	2019 Taxes Paid	Tax Increase	2018 Assessed Value	2019 Assessed Value	Value Increase
Miami-Dade County 30-5813-000-0020	465.61	\$ 40,777	\$ 179,761	341%	\$ 2,460,316	\$ 10,575,924	330%
TOTAL	465.61	\$ 40,777	\$ 179,761	341%	\$ 2,460,316	\$ 10,575,924	330%

¹³ <http://www.miamidade.gov/zoning/districts.asp>

Paired Sale Analysis – Residential Land:

The following map numbers the adjoining parcels for subsequent analysis. The 39 adjoining parcels are a mix of single family residences, agricultural land, and government land. We have identified five parcels that have transferred since the solar farm was completed, adjoining parcels 3, 13, 31, 33, and 35. Adjoining properties 3 and 33 transferred as deed corrections between related parties and are not considered market sales. Adjoining Property 35 was bought by the owner of the adjoining parcel for assemblage purposes and was also removed from the study. The remaining three parcels, adjoining properties 13, 31, and 33 were considered for a paired sales analysis. These three parcels have an interim agricultural use with residential development allowed under the GU zoning.



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We identified six Control Area sales with similar location, square footages, lot sizes, and ages that sold from a reasonable sale time from the median sales date of the test sales. Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our study is presented below.

CohnReznick Paired Sale Analysis - Miami Dade Solar		
	Potentially Impacted by Solar Farm	Adjusted Median Price Per Acre
Control Area Sales (6)	No: Not adjoining solar farm	\$81,866
Test Area Sales (3)	Adjoining solar farm	\$82,491
Difference		0.76%

Noting no negative price differential, it does not appear that the Miami Dade Solar Energy Center impacted the sales price of adjoining properties 13, 31, and 33.

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SOLAR FARM 5: BAREFOOT BAY SOLAR ENERGY CENTER, BREVARD COUNTY, FL

Coordinates: Latitude 27°52'15.5"N, Longitude 80°31'38.3"W

PINs: Several

Recorded Owner: Florida Power & Light Company

Total Land Size: 505 acres

Date Project Announced: January 2017

Date Project Completed: May 2018

Output: 74.5 MW AC



2020 Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Barefoot Bay Solar Energy Center is located north of Sebastian, in the unincorporated community of Micco, in coastal Brevard County, Florida. The solar installation sits on a 462-acre site, on land that was formerly an orange grove. Florida Power & Light held an open house for the area residents in January of 2017. The construction started in June of 2017 and was completed in May of 2018. The solar energy center has a capacity of approximately 74.5 MW AC. The site comprises approximately 300,000 solar panels on a fixed-tilt system, generating enough energy to power around 15,000 homes.

The solar site is approximately 450 feet south of Micco Road, an east-west arterial, approximately 1.5 miles west of U.S. 1, which runs along the shores of the Indian River. The solar installation is surrounded by trees and vegetation, and is adjoined by residential development to the north and east. Along Micco Road, to the northwest of the solar farm are several mixed-use lots, with agricultural, rural residential, and industrial uses.

The solar site is surrounded to the north and northeast primarily by the Barefoot Bay manufactured home community. Barefoot Bay is the largest manufactured home community in Florida where homes are permanently built, bought, and sold as real property. The community has three pools, a bar and restaurant, a golf course and other recreational and entertainment activities.

The population is estimated to be over 12,000 persons and approximately 80 percent of residents are over 55 years old, however, there is no age restriction in the community. The entire community sits on approximately 1,000 acres originally purchased and developed starting in 1968, with almost total absorption of lots by 1996. A total of 5,000 lots were platted and lots sizes currently range from 50 feet wide by 80 feet deep (4,000 square feet) to 75 feet wide by 100 feet deep (7,500 square feet). Homes are close together and with the standard setbacks homes can be 15 feet apart from one another.

A longtime local real estate agent and community resident at Barefoot Bay Realty said that the homes that border the solar site to the northeast, along Papaya Circle, are considered perimeter lots and are more desirable due to the lack of backyard neighbors. There is a swale (a broad and shallow ditch with water) that separates the lots from the solar site and the agent noted that many people in the community are unaware that the solar site is even there. The prices and marketing times of homes adjoining the solar farm on Papaya Circle in Barefoot Bay are not impacted by their proximity to the installation, and in fact may benefit from the increased privacy provided by the solar site.

The Barefoot Bay agent reported that small homes on small lots may sell for \$70,000 and larger homes on larger and better located lots can sell for over \$200,000. In the experience of Barefoot Bay Realty agents, there are typically 80 to 100 homes on the market at any one time and the average marketing time is considered to be 60 days.

To the east of the solar farm are rural residential lots with extended driveways. Several of these parcels are flag lots with secluded residences set back. At the southeast corner of the solar site, are approximately 441 acres of land zoned agricultural-residential by Brevard County owned by a cattle ranch operation.

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To the south of the solar site lies the Wheeler Stormwater Park which is a 300-acre stormwater management area. The site includes 163 acres of park land with dynamic walking and nature trails, which was opened to the public in 2017.

On the western boundary of the solar site is the Sottile Canal, a canal that flows into the north prong of the St. Sebastian River, a major tributary of the Indian River Lagoon. South of Micco Road west of the Canal is the new residential subdivision known as the Lakes at St. Sebastian Preserve, on land platted as Paladin Estates. The Lakes at St. Sebastian Preserve is located approximately 2.3 miles west of the Indian River. The single-family home community features new homes being built by two national homebuilders. The homes will have city water and septic but the subdivision is outside the city limits of Sebastian in Brevard County. Several homes have been built in the community as of July 2020 but the street with lots that back onto the Sottile Canal (Lago Vista Drive) will be built in a later phase. Real estate sales people for both builders noted that the view of the solar installation is primarily obstructed from the lots that will back to the Canal and there has been no impact on home sales or interest in the development due to its location proximate to the solar installation.

To the west of the solar site, south of Lakes at St. Sebastian Preserve, is state-owned land utilized for flood control.

Prior Use: Agricultural use

Real Estate Tax Info: The chart below shows the increase from 2016 (before construction) to 2018 (after construction) in the assessed value of the parcels and the total real estate taxes.

PIN	Acres	2016 Taxes Paid	2018 Taxes Paid	Tax Increase	2016 Assessed Value	2018 Assessed Value	Value Increase
Brevard County							
3006694	56.20	\$ 1,038	\$ 9,426	808%	\$ 67,440	\$ 618,200	817%
3007862	48.51	\$ 896	\$ 10,859	1112%	\$ 58,210	\$ 727,650	1150%
3008628	320.14	\$ 6,077	\$ 60,433	895%	\$ 384,170	\$ 4,001,750	942%
3008630	1.00	\$ 23	\$ 22	-4%	\$ 600	\$ 600	0%
3008632	9.00	\$ 162	\$ 1,888	1069%	\$ 10,500	\$ 126,000	1100%
3010467	69.90	\$ 1,291	\$ 13,685	960%	\$ 83,880	\$ 908,700	983%
TOTAL	504.75	\$ 9,485	\$ 96,313	915%	\$ 604,800	\$ 6,382,900	955%

Paired Sale Analysis:

The maps on the following pages number the adjacent parcels for subsequent analysis. We have identified thirteen sales that have transferred since the solar farm construction, adjacent parcels 6, 7, 13, 14, 18, 30, 37, 40, 47, 50, 51, 76, and 86. Adjoining property 14 was a liquidation sale and removed from consideration. Adjoining properties 37 and 50 transferred off the multiple listing service and are non-owner occupied. Adjoining property 30 has a large converted patio and is atypical for Barefoot Bay: this sale was considered an outlier and removed from analysis. While adjoining properties 76 and 86 are technically adjacent, they are atypical flag lots with driveways that operate as de facto roads. The residence for property 76 is buffered from the solar farm by

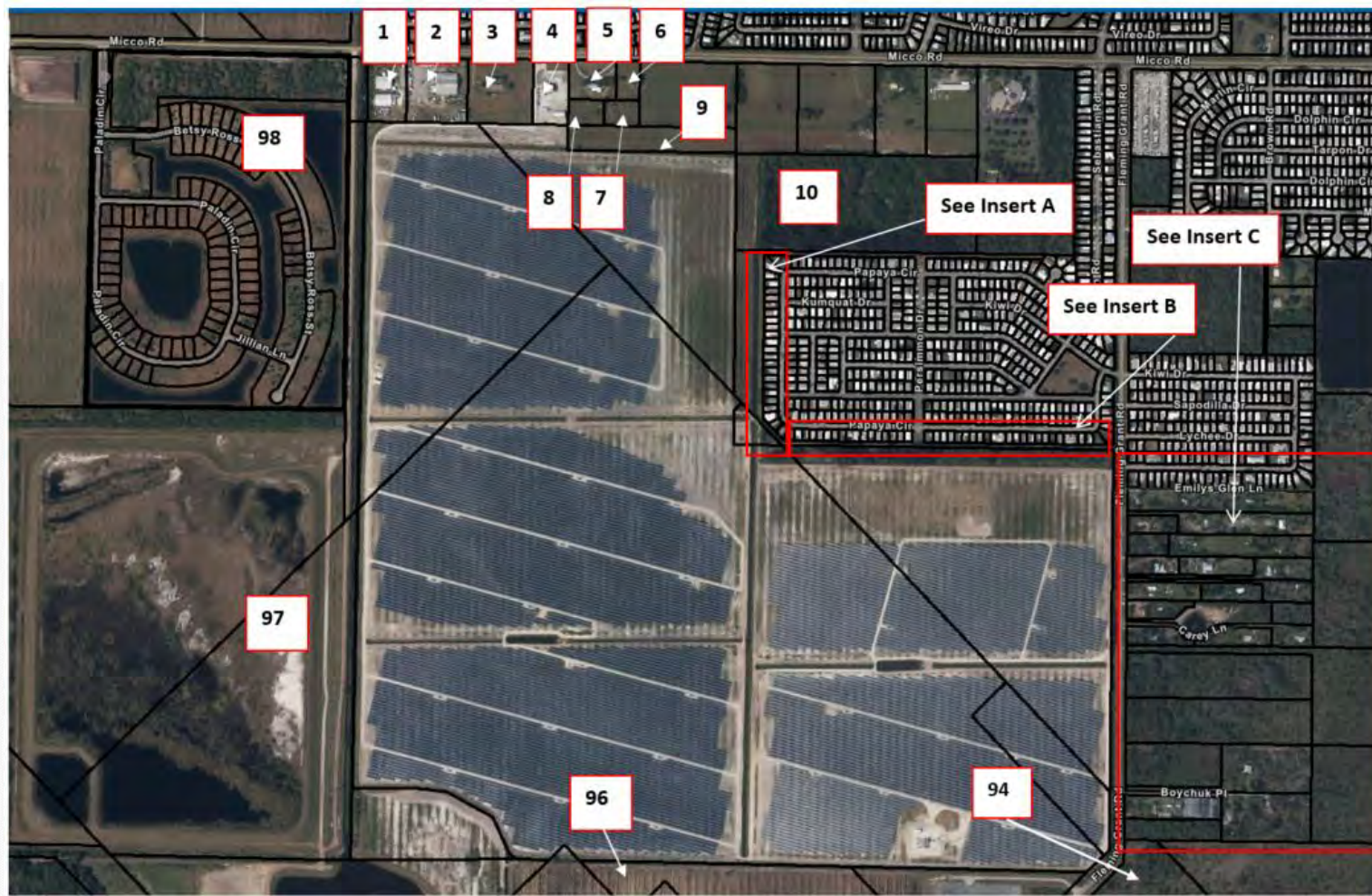
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two other residences. Adjoining property 86 is atypically larger than other sales in the market area and is approximately forty percent wetland. Properties 76 and 86 were considered outliers and removed from the study.

The remaining seven parcels, adjoining properties 6, 7, 13, 18, 40, 47, and 51 were considered for a paired sales analysis. We have divided these properties into two groups as discussed further on the following pages.

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Barefoot Bay Farm Adjoining Properties

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Barefoot Bay Farm Adjoining Properties - Insert A

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Barefoot Bay Farm Adjoining Properties - Insert B



Barefoot Bay Farm Adjoining Properties - Insert C

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Adjoining properties 6 and 7 are residential lots. They were purchased by the same buyer from two different sellers on different sale dates. We identified seven Control Area Sales with similar location and lot sizes that sold from a reasonable sale time from the median sales date of the test sales. The test sales had a median marketing time of two to three months, as did the control sales. Control Area sales were adjusted for market conditions using the Federal Housing Finance Agency's House Price Index (HPI), a weighted, repeat-sales index measuring average price changes in repeat sales or refinancing of the same properties. The result of our study is presented below.

CohnReznick Paired Sale Analysis - Barefoot Bay (Group 1)		
	Potentially Impacted by Solar Farm	Adjusted Median Price Per Acre
Control Area Sales (7)	No: Not adjoining solar farm	\$51,000
Test Area Sales (2)	Adjoining solar farm	\$54,500
Difference		6.86%

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Adjoining properties 13, 18, 40, 47, and 51 are improved residential dwellings. Since Barefoot Bay is a homogenous subdivision with a large number of residences, we were able to identify 126 control sales located in the Barefoot Bay manufactured home community, all manufactured homes on residential lots, with gross living areas of 1,100 SF to 1,800 SF, that sold from a reasonable sale time from the median sales date of the test sales, excluding outliers and non-arm's length transactions. Barefoot Bay has typical marketing times of two months. The test sales had a median marketing time of approximately a month and a half. Control Area sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market condition adjustment. The result of our study is presented below.

CohnReznick Paired Sale Analysis - Barefoot Bay (Group 2)		
	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Control Area Sales (126)	No: Not adjoining solar farm	\$93.95
Test Area Sales (5)	Adjoining solar farm	\$95.90
Difference		2.07%

Noting the relatively low price differential, in which the Test Area Sales were higher than the median for the Control Areas Sales, it does not appear that the Barefoot Bay Solar Energy Center had any negative impact on adjoining property values or marketing times.

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Summary of Before and After Construction of the Solar Farm Analysis:

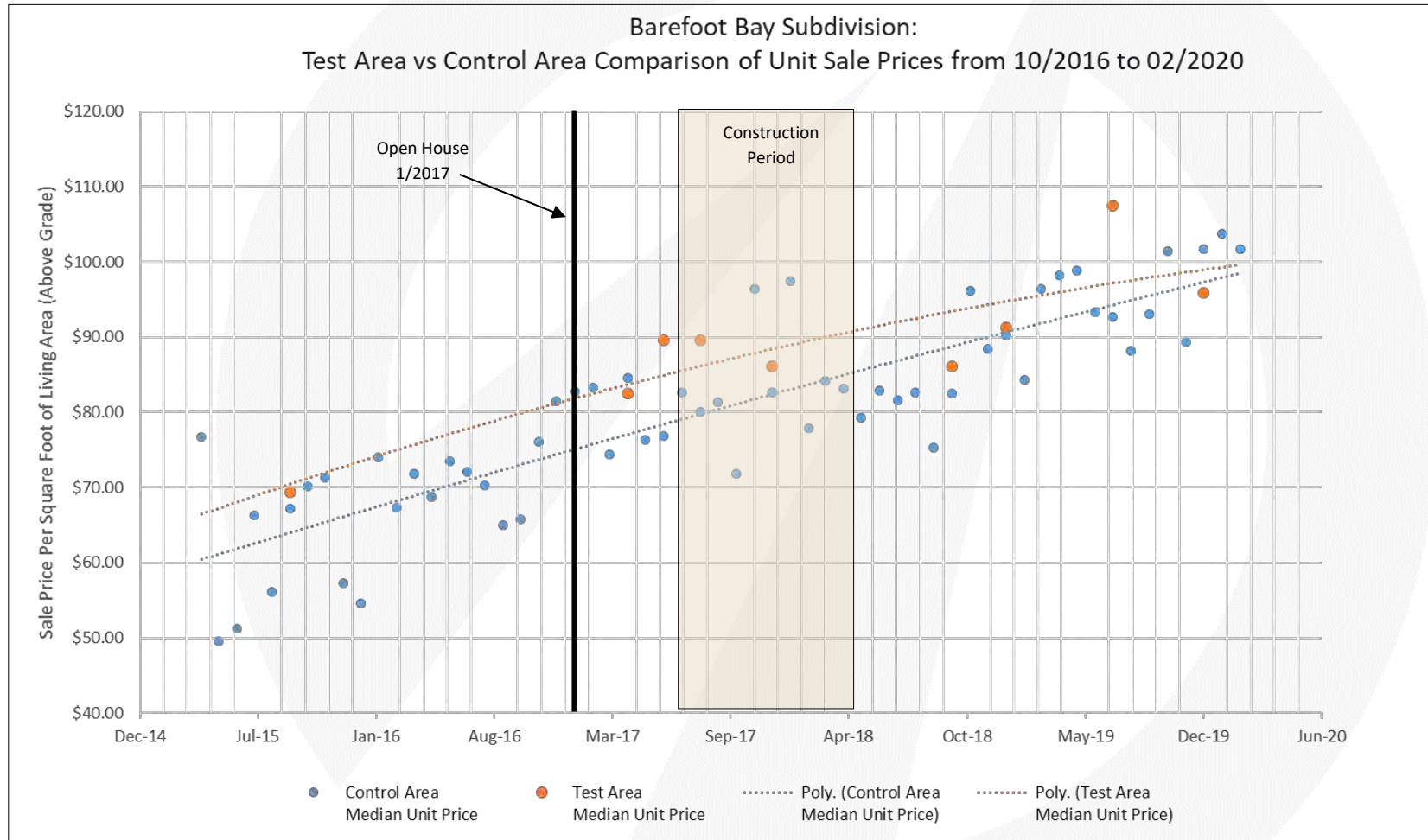
Due to the frequency of sales in the Barefoot Bay subdivision, we were able to conduct an analysis on the prices of manufactured homes before the solar farm announcement date in comparison to the prices of manufactured homes after the construction of the solar farm. We have provided our conclusions from the data below and the following page contains a chart with the data.

Nine Test Area sales and 903 Control Area Sales were identified from Q2 2015 to Q1 2020.

- The Test area sales (ORANGE) are located adjoining to the Barefoot Bay Solar Energy Center.
- The Control area sales (BLUE) are located in the remainder of the Barefoot Bay subdivision.

The dotted lines are polynomial trend lines plotted by Microsoft Excel in order to illustrate and approximate the “average” trend of each set of data. After construction of the solar farm, in parallel with the improving economic climate, it appears that unit prices for both the test and control areas appreciated at a similar rate over the period from Q2 2015 to Q1 2020. A difference in appreciation rates does not appear to exist between homes in the Test Area versus homes in the Control Area.

Sale prices of manufactured homes after the construction of the solar farm exhibit a similar appreciation trend as sales prior to the solar farm announcement. Overall, our findings indicate that there is not a consistent and measurable difference that exists in association with proximity to a solar farm.



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SOLAR FARM 6: INNOVATIVE SOLAR 42, BLADEN AND CUMBERLAND COUNTIES, NC

Coordinates: Latitude 34.847627, Longitude -78.877360

Cumberland County PIN: 0339-67-3814

Bladen County PINs: 033900553698, 033900751483, 033900658763

Total Land Size: 414 acres

Date Project Announced: May 2014

Date Project Completed: September 2017

Output: 71 MW AC



Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

Innovative Solar Farm 42 was developed by Innovative Solar Systems and became operational in September 2017. There are over 271,000 solar arrays on the farm that can generate power for approximately 12,000 homes.

Innovative Solar Farm 42 is located in unincorporated Bladen and Cumberland Counties, in North Carolina, approximately 17 miles south of Fayette, North Carolina and 21 miles north of Elizabethtown, North Carolina. The county line bisects the solar farm, with Cumberland County on the north side and Bladen County on the south side. Innovative Solar Farm is located just south of County Line Road in Cumberland County and approximately one mile west of North Carolina Highway 87.

The Immediate Area: The solar farm is surrounded by residential land to the north, residential and forest land to the west, and agricultural and forest land to the south and east.

Landscaping: The solar farm is buffered from the residences along County Line Road with a chain link fence, and tree plantings. The solar farm is clearly visible.

Prior Use: Agricultural use

Real Estate Tax Info: The chart below shows the increase from 2017 (before construction) to 2018 (after construction) in the assessed value of the parcels and the total real estate taxes.

PIN	Acres	2017 Taxes Paid	2018 Taxes Paid	Tax Increase	2017 Assessed Value	2018 Assessed Value	Value Increase
Cumberland County, NC 0339-67-3814	261.39	\$ 5,263	\$ 37,699	616%	\$ 541,500	\$ 3,920,850	624%
Bladen County, NC 33900553698	82.48	\$ 920	\$ 947	2.96%	\$ 108,870	\$ 108,870	0.00%
33900751483	17.92	\$ 234	\$ 241	2.96%	\$ 27,690	\$ 27,690	0.00%
033900658763	52.20	\$ 622	\$ 640	2.96%	\$ 73,600	\$ 73,600	0.00%
TOTAL	413.99	\$ 7,039	\$ 39,527	462%	\$ 751,660	\$ 4,131,010	450%

Paired Sale Analysis:

We found two Adjoining Properties that qualified for a paired sales analysis: Adjoining Property 11 and Adjoining Property 2. Adjoining Property 2 was a speculative construction home built after the completion of the solar farm (see further discussion in the Solar Farm Factors in Harmony of Use section). The map on the following page displays the parcels adjoining to the solar farm panels (outlined in red), these parcels are numbered for subsequent analysis. Note, that the GIS map views do not have updated aerial imagery that display the solar panels in the image on the following page.

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Cumberland County Map



Innovative Solar 42 - Adjoining Properties

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Bladen County Map



Innovative Solar 42 - Adjoining Properties

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Group 1

Adjoining Property 11 was considered for a paired sales analysis, and sold during the construction period of the solar farm. The property was analyzed as a single-family home use.

The Control Area Sales were 1-story homes, with three bedrooms and two or three bathrooms with comparable sizes that sold within a reasonable time frame. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Innovative Solar 42 – Group 1e are presented below.

CohnReznick Paired Sale Analysis Innovative Solar 42 Group 1		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$107.09
Control Area Sales (7)	No: Not adjoining solar farm	\$100.18
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		6.91%

The Test Area Sale sold after 71 days on market (2-3 months), while the Control Area Sales ranged from 1 day on market to 175 days on market (0-6 months), with a median of 116 days on market. We note **no negative marketing time differential.**

Noting no negative price differential, with the Test Area Sale having a higher unit sale price than the median adjusted unit sale price of the Control Area Sales, it does not appear that the Innovative Solar 42 energy use had any negative impact on adjacent property values.

Group 2

Adjoining Property 2 was considered for a paired sales analysis, and sold after completion of the solar farm. We discussed this sale with the listing broker, Kevin Grullon, who said the solar farm did not impact the sales price nor the marketing time.

The Control Area Sales were 2-story homes, with three and four bedrooms and two to four bathrooms with comparable sizes that sold within a reasonable time frame. We excluded sales that were bank-owned, and those between related parties. For Adjoining Property 2, we analyzed seven Control Area Sales.

Control Area Sales were adjusted for market conditions using regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Innovative Solar 42 – Group 2 are presented below.

CohnReznick Paired Sale Analysis Innovative Solar Group 2		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$111.77
Control Area Sales (7)	No: Not adjoining solar farm	\$105.34
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		6.10%

The Control Area Sales ranged from 13 days on market to 225 days on market (0-8 months), with a median of 46 days on market. The Test Area Sale sold after 153 days on market (3-4 months) and it was listed during construction, which explains the above average time on market since closing can only occur after the home had been completed.

Noting no negative price differential, with the Test Area Sale having a higher unit sale price than the median adjusted unit sale price of the Control Area Sales, it does not appear that the Innovative Solar 42 energy use had any negative impact on adjacent property values.

SOLAR FARM 7: RUTHERFORD FARM, RUTHERFORD COUNTY, NC

Coordinates: Latitude 35.257778, Longitude -81.830560

PIN: 1556-31-0185

Total Land Size: 489 acres

Date Project Announced: November 24, 2015

Date Project Completed: December 2016

Output: 61 MW AC



Aerial imagery retrieved from Google Earth

Overview and Surrounding Area:

The Rutherford Farm Solar use is located in unincorporated Rutherford County, North Carolina. The solar farm was developed by Cypress Creek Renewables and became operational in December 2016. Southern Power and Turner Renewable Energy purchased the solar facility on July 8, 2016. The solar farm has over 289,000 solar modules that can generate power for approximately 12,000 homes.

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The Rutherford Farm solar use is approximately 7 miles southeast of Forest City, in Rutherford County, in southwestern North Carolina. The solar facility is situated approximately 3 miles northeast of the intersection of Chase High Road and US 221, a major thoroughfare that traverses the county.

The Immediate Area:

Surrounding land uses consists of residential and forest land to the north, forest and commercial to the east, vacant and forest land to the south. All of the adjacent land parcels to the solar farm are used for agricultural or residential purposes.

The solar farm has a hedge buffer along portions of the farms where the residential development is closest. Along all solar panels areas adjacent to residential, a row of trees buffer the view of the panels.

Prior Use: Wooded

Real Estate Tax Information:

Prior to development of the solar farm, the assessed value of the property was \$466,200 and ownership paid \$3,156 in taxes. In 2018, after the completion of the solar farm, the assessed value of the solar farm property increased to \$1,075,800 and taxes increased to \$7,391, a 131 percent increase in tax revenue.

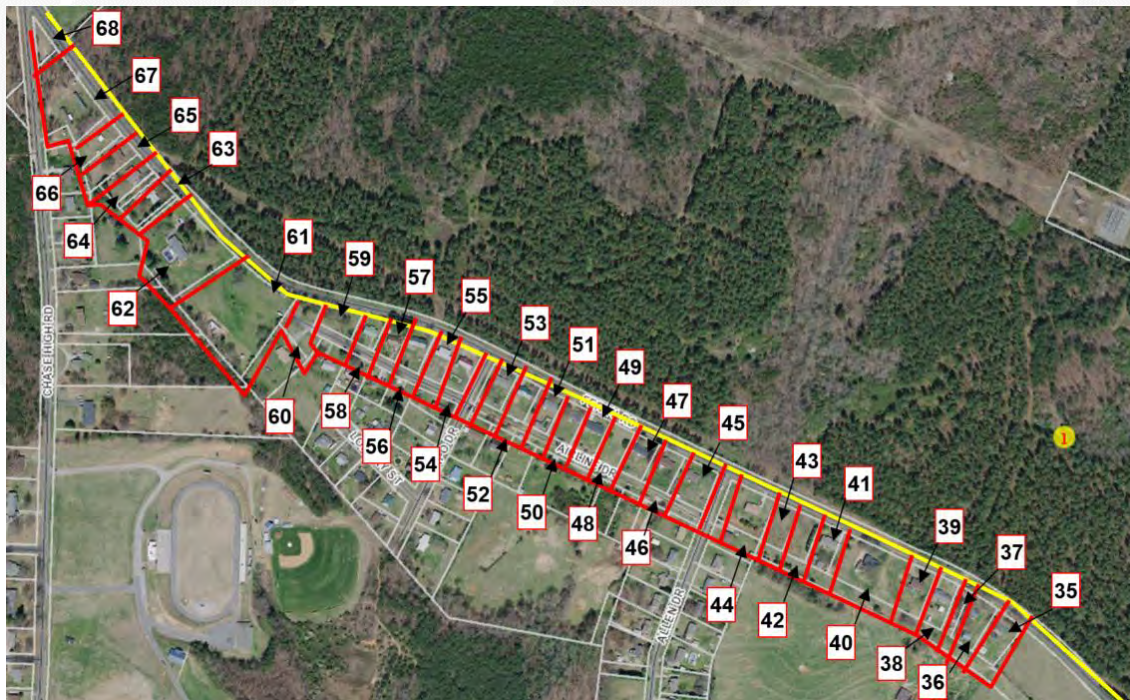
PIN	Acres	2016 Taxes Paid	2018 Taxes Paid	Tax Increase	2016 Assessed Value	2018 Assessed Value	Value Increase
Rutherford County 1556-31-0185	488.84	\$ 3,203	\$ 7,391	131%	\$ 466,200	\$ 1,075,800	131%
TOTAL	488.84	\$ 3,203	\$ 7,391	131%	\$ 466,200	\$ 1,075,800	131%

Paired Sale Analysis:

In reviewing adjoining properties to study in a Paired Sale Analysis, seven properties and sales were considered in total but six were eliminated from further consideration as discussed below.

The map on the following page displays the Adjoining Properties (outlined in red) to the solar farm parcel (outlined in yellow). Properties adjoining this parcel are numbered for subsequent analysis.

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Rutherford Farm Solar - Adjoining Properties

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Five Adjoining Properties (21, 22, 36, 56, and 57) were eliminated from further consideration because they were sales with no recorded sales value or property transfers in off-market transactions. Adjoining Property 2 was a transfer between related parties. Adjoining Property 55 sold in October 2020; however, this property is a duplex with one two-bedroom unit rented. We were not able to locate sales of other duplex properties in the surrounding area that are comparable to the property. As additional duplex sales occur, we will monitor and generate a paired sale analysis for this property at a later date.

We found one Adjoining Property that qualified for a Paired Sale analysis. Adjoining Property 46, the Test Area Sale, was considered for a paired sales analysis. The property was analyzed as a single-family home use. It should be noted that this sale occurred after announcement but prior to construction of the solar farm. We spoke with the selling broker for this property, Brent Washburn, who confirmed that the solar farm had not been constructed at the time of sale, and said the announcement had no impact on the sale.

Adjoining Property 46 was considered for a paired sales analysis, and we analyzed this properties as single-family home use. The improvements on this property are located 139 feet to the nearest solar panel.

Test Area Sale Rutherford Farm Solar									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
46	434 Ferry Rd	\$85,000	0.41	3	2.0	1977	1,590	Jan-16	\$53.46

We analyzed six Control Area Sales, single family homes with similar location, construction, square footages, lot sizes, and ages, use that were not located in close proximity to the solar farm, that also sold within a reasonable time frame from the median sale date of the Test Area Sale. The Control Area Sales are one-story homes with 3 bedrooms and one to two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression to identify the appropriate monthly market conditions adjustment. The results of our analysis for the Rutherford Farm solar facility are presented on the next page.

CohnReznick Paired Sale Analysis Rutherford Farm Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$53.46
Control Area Sales (6)	No: Not adjoining solar farm	\$52.49
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		1.85%

Noting no significant price differential, with the Control Area Sales having a slightly lower median unit sale price than the unit sale price of the Test Area Sale, it does not appear that the Rutherford Farm Solar energy use had any negative impact on adjacent property values.

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SOLAR FARM 8: ELM CITY SOLAR FACILITY, WILSON COUNTY, NC

Coordinates: Latitude 35.781111, Longitude -77.846940

PINs: 3744-33-6758.01, 3744-11-9000.000

Total Land Size: 354 acres

Date Project Announced: September 2014

Date Project Completed: July 2012

Output: 40 MW AC



Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Elm City Solar use is located in Elm City, North Carolina. Duke Energy owns the solar facility and selected HelioSage Energy to develop it. The solar farm went into operation in March 2016 and can generate power for approximately 7,000 homes. Nearly a half million solar panels comprise the farm.

Wilson County is located in central North Carolina. The county is primary rural in nature, with the city of Wilson being the county seat. Elm City is actually a town with a population of less than 1,200. The Elm City Solar Farm is located to the southeast of Elm City, approximately a third of a mile to the east of State Highway 301. Surrounding land uses consist of residential and forest land to the north; forest and agricultural land to the east; vacant, forest, and residential land to the south; and residential, industrial, vacant, and forest land to the west.

The Immediate Area:

All of the adjacent land parcels to the solar farm are used for agricultural, residential, and/or industrial purposes.

Landscaping: The Elm City Solar Farm is buffered from the adjoining residential lots with a fence and tree plantings.

Prior Use: Agricultural use

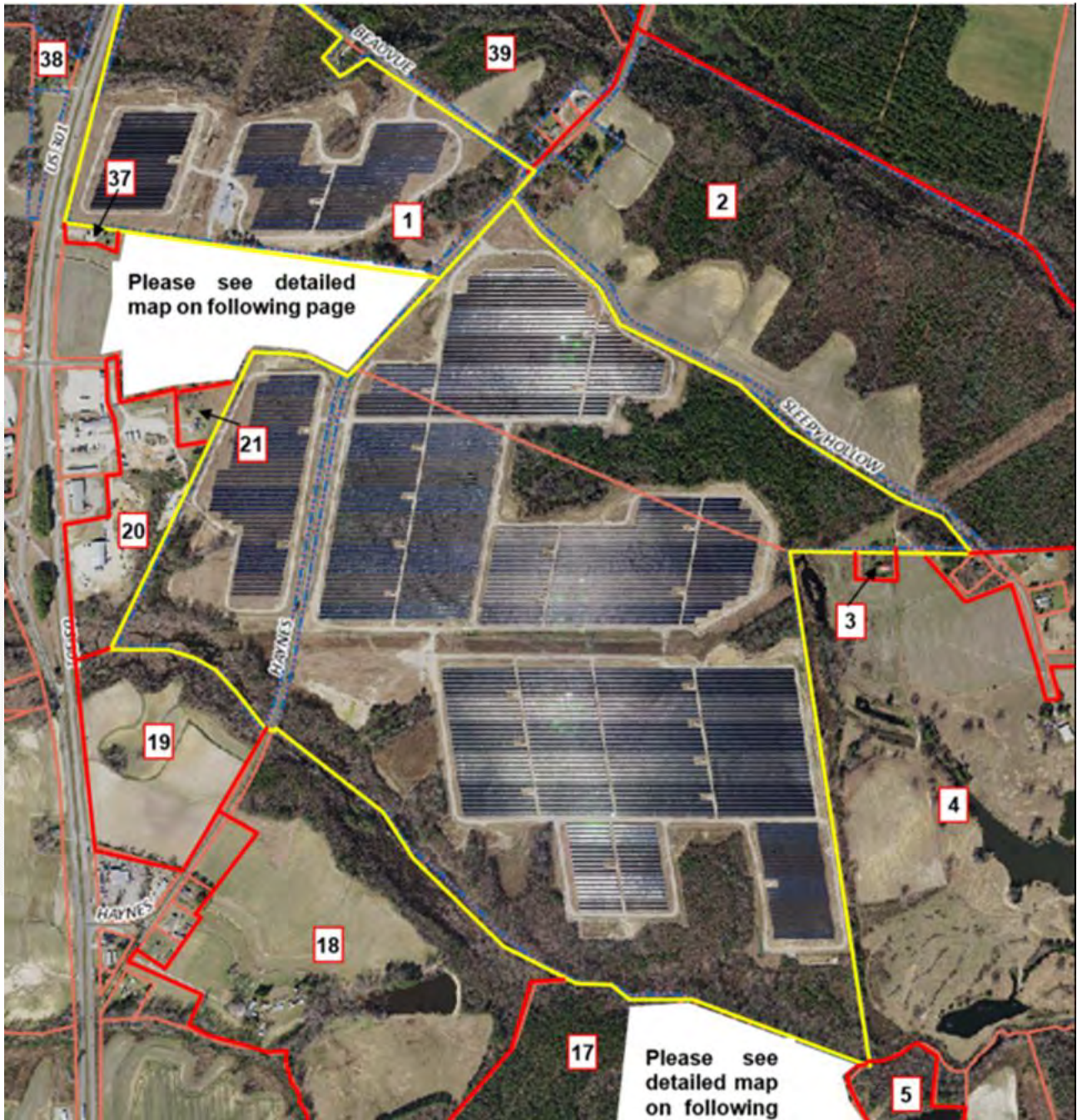
Real Estate Tax Info: In 2016, prior to the property being assessed as a solar farm, the assessed value of the property was \$206,220 and ownership paid \$2,805 in real estate taxes. In 2017, the assessed value increased to \$1,779,830 and the real estate tax increased to \$24,206.

PIN	Acres	2016 Taxes Paid	2017 Taxes Paid	Tax Increase	2016 Assessed Value	2017 Assessed Value	Value Increase
Wilson County							
3744119000.000	249.00	\$ 2,805	\$ 14,624	421%	\$ 206,220	\$ 1,075,330	421%
3744336758.01*	105.00	\$ 1,494	\$ 9,581	541%	\$ 117,881	\$ 704,500	498%
TOTAL	354.00	\$ 4,298	\$ 24,206	463%	\$ 324,101	\$ 1,779,830	449%

* This parcel was split from its parent prior to construction. The 2016 Assessed Value is based on the pro-rata amount for the entire 471.53 acre parent parcel.

Paired Sale Analysis:

The map on the following page displays the parcels adjoining the solar farm (outlined in red). Properties adjoining the solar parcels are numbered for subsequent analysis.



Elm City Solar - Adjoining Properties

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Elm City Solar - Adjoining Properties



Elm City Solar - Adjoining Properties

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Adjoining Property 23 (Test Area Sale) was considered for a paired sales analysis, which sold after development of the solar farm. The property was analyzed as a single-family home use. We discussed this sale with Selby Brewer with First Wilson Properties, Inc who sold the property. He said the buyers “did not even mention” the solar farm, and he saw **no market difference.**

For Adjoining Property 23, we analyzed eight Control Area Sales that sold within a reasonable time frame from the sale date of Adjoining Property 23. The Control Area Sales are ranch homes with three bedrooms and one and two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Elm City Solar is presented below.

CohnReznick Paired Sale Analysis Elm City Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (1)	Adjoining solar farm	\$56.60
Control Area Sales (8)	No: Not adjoining solar farm	\$55.57
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		1.85%

Noting no negative marketing time differential, the days on market for the Test Area Sale was 38 days (0-1 month), while the Control Area Sales ranged from five to 204 days on market (0-8 months).

Noting no negative price differential, it does not appear that the Elm City Solar impacted the sales price of the Test Sale, Adjoining Property 23. This was confirmed by the real estate agent who marketed and sold this home.

SOLAR FARM 9: WOODLAND SOLAR FARM, ISLE OF WIGHT COUNTY, VA

Coordinates: Latitude 36.890000, Longitude -76.611000

PINs: 41-02-004, 41-02-001, 41-02-001A, 41-02-005

Total Land Size: 211.12 acres

Date Project Announced: August 4, 2015

Date Project Completed: December 2016

Output: 19.0 MW AC



Aerial imagery retrieved from Google Earth

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Overview and Surrounding Area:

The Woodland Solar Farm is located in unincorporated Isle of Wight County, Virginia, and was developed by Dominion Virginia Power in 2016. This solar farm has a capacity of 19.0 Megawatts (MW) AC of power, which is enough to power 4,700 homes. The solar farm sits on 204 acres, part of Oliver Farms, a 1,000-acre site that was chosen for its flat land and proximity to power lines. The land under the solar arrays was previously farmed and used to grow broccoli, collards, peas, strawberries and butter beans. The solar installation includes 79,648 solar panels and was one of the largest of its kind at the time of construction.

Isle of Wight County is in the southeast part of Virginia and has shoreline along the James River on its eastern border. The county is predominantly rural and has two incorporated towns, Smithfield and Windsor. The Woodland Solar facility is approximately 27 miles northwest of Norfolk, Virginia, across the Elizabeth River and the Nansemond River. The solar site is also approximately 21 miles southwest of Newport News, Virginia. The town of Smithfield is approximately nine miles northeast of the solar facility and the town of Windsor is approximately 12 miles southwest. The solar facility is near the intersection of State Route 600 (Oliver Drive) and State Route 602 (Longview Drive).

The Immediate Area:

Land uses surrounding the Woodland Solar facility include forests and agricultural land to the north, west, and south, and residential and farm land to the east.

Landscaping around the solar site consists of the naturally occurring vegetation and forests. It should be noted that the land owner that leases the land to the developer has agricultural buildings and other structures along Longview Drive and the nearest solar panels are approximately 220 feet from the property line.

Prior Use: Agricultural use

Real Estate Tax Info: In 2015, prior to the property being assessed as a solar farm, the assessed value of the property was approximately \$542,200 and ownership paid \$4,609 in real estate taxes (see below). In 2016, the assessed value increased to \$3,021,600 and the real estate tax increased to \$27,844.

PIN	Acres	2015 Taxes Paid	2016 Taxes Paid	Tax Increase	2015 Assessed Value	2016 Assessed Value	Value Increase
Isle of Wight County, VA							
41-02-004	107.32	\$ 2,250	\$ 15,985	610%	\$ 264,700	\$ 1,728,100	553%
41-02-001	62.66	\$ 1,369	\$ 8,601	529%	\$ 161,000	\$ 939,900	484%
41-02-001A	8.08	\$ 230	\$ 1,193	420%	\$ 27,000	\$ 110,700	310%
41-02-005	33.06	\$ 761	\$ 2,065	171%	\$ 89,500	\$ 242,900	171%
TOTAL	211.12	\$ 4,609	\$ 27,844	504%	\$ 542,200	\$ 3,021,600	457%

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Paired Sale Analysis:

The map below displays the Adjoining Properties to the solar farm (outlined in red). Properties adjoining the solar farm parcels are numbered for subsequent analysis.



Woodland Solar - Adjoining Properties

In reviewing Adjoining Properties to study in a Paired Sale Analysis, several properties and sales were considered but eliminated from further consideration as discussed below.

We identified three Adjoining Properties that sold since the solar farm started operations in December 2016: Adjoining Property 3, and two parcels included in Adjoining Property 5. The two properties that were considered part of Adjoining Property 5, sold between related parties, and were sales between family members of the land lessor for the solar site. These two sales were excluded from further analysis.

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Adjoining Property 3 was considered for a paired sales analysis, and we analyzed this property as single-family home use. The improvements on this property is located approximately 600 feet to the nearest solar panel.

Test Area Sale - Adjoining Property 3									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median GLA (SF)	Median Sale Date	Median Price PSF
3	18146 Longview Drive	\$175,000	1.00	3	1	1978	1,210	Jun-16	\$144.63

We analyzed five Control Area Sales of single-family homes with similar construction and use that were not located in close proximity to the solar farm, that sold within a reasonable time frame from the median sale date of the Test Area Sale. The Control Area Sales one-story homes with three bedrooms and one and two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for Woodland Solar Farm is presented below.

CohnReznick Paired Sales Analysis Woodland Solar Farm Adjoining Property 3		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Yes: Adjoining solar farm	\$144.63
Control Area Sales (5)	No: Not adjoining solar farm	\$137.76
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		4.99%

The difference between the unit price of the Test Area Sale and the Adjusted Median Unit Price of the Control Area Sales is considered within the range for a typical market area.

Noting no negative marketing time differential, the Test Area Sale sold in 33 days (1-2 months), while the Control Area Sales sold between 17 and 37 days (0-2 months), with a median time on market of 28 days.

Noting no negative price differential, with the Test Area Sale having a higher unit sale price than the Control Area sales, it does not appear that the Woodland Solar Farm had any negative impact on adjacent property values.

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SOLAR FARM 10: DTE'S LAPEER SOLAR PROJECT, LAPEER, MICHIGAN

Coordinates: Latitude 43.0368219316, Longitude -83.3369986251

PINs: L20-95-705-050-00, L20-98-008-003-00

Owner of Record: DTE Electric Company & City of Lapeer

Total Land Size: ±365 Acres

Date Project Announced: 2016

Date Project Completed: May 2017

Output: 48.28 MW AC



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Overview and Surrounding Area:

The DTE Lapeer solar farm is located just south of the City of Lapeer, in Lapeer County, Michigan and is a joint project between the City of Lapeer and DTE Electric Company. The solar farm was developed with Inovateus Solar MI, LLC to meet Michigan renewable energy standards. The solar farm features over 200,000 panels, a power output of 48.28 MW AC, and produces enough energy to power 14,000 homes. The Lapeer solar project was developed in two phases: the Demille Solar installation and the Turrill Solar installation. For purposes of our study, taken together, both installations are considered one solar farm.



DTE's Lapeer Solar Projects Demille and Turrill solar installations

Lapeer is considered to be in the Tri-Cities area of central Michigan and is approximately 21 miles east of the City of Flint. Interstate-69 serves Lapeer and runs east-west just south of the solar farm. The two phases of the solar installation are on the east and west sides of Michigan State Route 24 from each other.

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The Immediate Area:

Land uses surrounding the Demille installation include a correctional facility and industrial uses to the west, buffered by a mature stand of trees, a retail center to the northeast, other commercial uses to the east along MI-24/South Lapeer Road, and residential homes to the southeast. Interstate-69 runs south of the Demille solar installation.

The Turrill installation is surrounded to the north by a residential subdivision, to the north and east by industrial uses, to the south by vacant land and residential homes, and to the west by light commercial and professional uses along MI-24/South Lapeer Road. Hunter’s Creek divides two sets of solar arrays in the Turrill installation.

The Demille installation is surrounded on the west by a large grove of mature trees. A small part of the solar farm extends southward and adjoins Interstate-69 while more mature trees and shrubbery buffer the rest of the southern exposure of the south side of the solar panels. To the southeast, buffering the subdivision homes are mature trees and some shrubbery. The eastern border of the solar installation is primarily existing mature trees, and some vacant land. To the northeast corner of the solar panels is a senior living facility, Stonegate Health Campus, developed before the solar facility that is buffered by shrubbery and mature trees. According to employees at Stonegate the solar panels are not visible from the building.

The Turrill installation is separated from Tower Road on the west by trees and shrubbery. To the south, existing mature trees and shrubbery buffers the solar panels from Turrill Road. The solar panels are bisected by Hunters Creek, which runs roughly north-south. Mature trees buffer the industrial uses on the eastern side and the northeastern corner of the solar panels. The northern border of the solar panels is separated from the Hunters Creek subdivision by mature trees as well.

Prior Use: Agricultural use

Real Estate Tax Information:

Prior to the development of the solar farm, the land under the Demille and Turrill solar installations were municipal-owned and were not subject to property tax. After development, in 2017, the land became taxable and taxes were \$82,889 total, as shown below.

PIN	Acres	2016 Taxes Paid	2017 Taxes Paid	Tax Increase	2016 Assessed Value	2017 Assessed Value	Value Increase
Lapeer County, MI							
L20-98-008-003-00*	110.84	\$ -	\$ 34,294	N/A	\$ -	\$ 726,700	N/A
L20-95-705-050-00*	254.84	\$ -	\$ 48,595	N/A	\$ -	\$ 1,029,750	N/A
TOTAL	365.68	\$ -	\$ 82,889	N/A	\$ -	\$ 1,756,450	N/A

* Prior to development as a solar farm, the parcels were municipal property without a taxable value.

Paired Sale Analysis:

The maps, below, and on the following pages display properties adjoining the solar sites that are numbered in red for subsequent analysis.

Demille Solar Farm



DTE's Lapeer Solar Projects - Demille Adjoining Properties

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DTE's Lapeer Solar Projects - Demille Adjoining Properties

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Turrill Solar Farm



DTE's Lapeer Solar Projects - Turrill Adjoining Properties

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DTE's Lapeer Solar Projects - Turrill Adjoining Properties

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In reviewing Adjoining Properties to study in a Paired Sale Analysis, several properties and sales were considered but eliminated from further consideration as discussed below.

We identified seven Adjoining Properties that sold since the solar farm started operations in May of 2017: Adjoining Properties 3, 4, 7, 9, and 16 for the Demille Solar Farm, and Adjoining Properties 3 and 4 for the Turrill Solar Farm. Of these properties, three were considered atypical for the area.

Adjoining Property 7 adjacent to the Demille Solar farm is a split-level home with a finished walk out basement with a pool. The typical home in the area has a traditional basement and pools are atypical. The unusual nature of this sale was confirmed with the selling broker, Renee Voss (see comments below).

Adjoining Property 16 just south of the Demille Solar Farm is a 10.1-acre lot that is buffered by trees. The home is atypical for the area, as most homes are situated on lots between 1-acre and 1.5-acres in size and were built before 1980; this home was built in 2008. We interviewed the broker Josh Holbrook (see comments below) who confirmed the atypical nature of this property.

Adjoining Property 3, just west of the Turrill Solar Farm, was a ranch home with 1,348 square feet on a lot that was just over one acre. Comparables for homes of this size, type, and lot size were not available in the immediate market area. It should be noted that the price per square foot for this home (\$108.01) is significantly higher than median price per square foot of either data set we studied.

As a part of our research, we interviewed three local real estate brokers that sold homes adjacent to the Lapeer Solar farm. According to the brokers, there was no impact on the home prices or marketability due to the homes' proximity to the solar arrays.

Renee Voss of Coldwell Banker, selling broker of the raised ranch at 1138 Don Wayne Drive (Adjoining Property 7), which is adjacent to the Demille solar farm at the southeast corner, noted that there was no impact on this sale from the solar farm located to the rear. The home, which has a pool in the backyard, sold quickly with multiple offers, Voss stated.

Josh Holbrook, the selling broker of 1408 Turrill Road (known as Adjoining Property 16), located just south of the Demille Solar Farm, said the solar farm had no impact on the sale and that the community takes pride in the solar farm.

Anne Pence of National Realty Centers, the selling broker for 1126 Don Wayne Drive, a single-family home adjacent to the Demille solar farm (known as Test Area Sale 9), reported that "the solar farm did not have any effect on the sale of this home. The buyers did not care one bit about the solar field in the back yard. The fact is that you know no one is going to be behind you when they develop a solar farm in your back yard. And there they put up trees to block the view. My in-laws also actually live at end of that street, even though they haven't sold or put their house on market, they don't mind the solar panels either. It's not an eyesore. And another house sold on that block, a raised ranch home, and it sold with no problems."

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Group 1 – Demille:

Adjoining Properties 3, 4, and 9 to the Demille Solar Farm were considered for a paired sales analysis, and we analyzed these properties as single-family home uses in Group 1. The improvements on these properties are located between 210 to 255 feet to the nearest solar panel.

Test Area Sales Group 1 - Demille Solar									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
3, 4, 9	1174 Alice Dr, 1168 Alice Dr, 1126 Don Wayne Drive	\$160,000	0.50	3	2.0	1973	1,672	May-18	\$86.12

We analyzed seven Control Area Sales of single-family homes with similar construction and use that were not located in close proximity to the solar farm, that sold within a reasonable time frame from the median sale date of the Test Area Sales in Group 1. The Control Area Sales for Group 1 are ranch homes with three bedrooms and one and two bathrooms. We excluded sales that were bank-owned, and those between related parties.

The Control Area Sales were adjusted for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for DTE’s Lapeer Solar Project - Group 1 is presented below.

DTE Lapeer Solar Group 1 - Demille Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sales (3)	Adjoining solar farm	\$86.12
Control Area Sales (7)	No: Not adjoining solar farm	\$85.92
Difference between Unit Price of Test Area Sales and Adjusted Median Unit Price of Control Area Sales		0.24%

The days on market for the three Test Area Sales had a median of 28 days on market (ranging from 5 to 48 days), while the median days on market for the Control Area sales was 72 days (ranging from 14 to 224 days), **and we note no negative marketing time differential.**

Group 2 – Turrill:

Adjoining Property 4 to the Turrill Solar Farm was analyzed separately since it is a two-story home on a larger lot as Group 2. The home on Adjoining Property 4 is 165 feet from the property line to the nearest solar panel.

Test Area Sale Group 2 - Turrill Solar									
Adj. Property #	Address	Median Sale Price	Median Site Size (AC)	Median Beds	Median Baths	Median Year Built	Median Square Feet	Median Sale Date	Median Price PSF
4	1060 Cliff Drive	\$200,500	1.30	4	2.5	1970	2,114	Sep-18	\$94.84

We analyzed four Control Area single-family homes sales with similar construction that were not located in close proximity to the solar farm, that sold within a reasonable time frame from the sale date of Adjoining Property 4.

The Control Area Sales for Group 2 are 2-story homes with between two and four bedrooms and 2.5 to 3.0 bathrooms. We excluded sales that were bank-owned, and those between related parties.

We adjusted the Control Area Sales for market conditions using a regression analysis to identify the appropriate monthly market conditions adjustment. The result of our analysis for DTE’s Lapeer Solar Project – Group 2 is presented below.

CohnReznick Paired Sale Analysis DTE Lapeer Solar Group 2 - Turrill Solar		
No. of Sales	Potentially Impacted by Solar Farm	Adjusted Median Price Per SF
Test Area Sale (1)	Adjoining solar farm	\$94.84
Control Area Sales (4)	No: Not adjoining solar farm	\$91.80
Difference between Unit Price of Test Area Sale and Adjusted Median Unit Price of Control Area Sales		3.31%

The days on market for the Test Area Sale was 2 days, while the median days on market for the Control Area sales was 35 days (ranging from 11 to 177 days), **and we note no negative marketing time differential.**

Noting no negative price differential, with the Test Area Groups having a higher unit sale price than the Control Area sales, in either Group, it does not appear that the DTE’s Lapeer Solar had any negative impact on adjacent property values.

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SUMMARY OF ADJOINING USES

The table below summarizes each subject solar farm's adjoining uses.

Solar Farm #	Solar Farm	Composition of Surrounding Uses (% of Surrounding Acreage)					Avg. Distance from Panels to Improvements (Feet)
		Acreage % of Surrounding Agricultural Uses	Acreage % of Surrounding Residential Uses	Acreage % of Surrounding Industrial Uses	Acreage % of Surrounding Office Uses	Acreage % of Surrounding Other Uses	
1	North Star	75.00%	15.00%	0.00%	0.00%	10.00%	350
2	Dominion Indy Solar III	97.70%	2.30%	0.00%	0.00%	0.00%	474
3	Dougherty Solar	76.42%	22.46%	1.12%	0.00%	0.00%	350
4	Miami-Dade Solar Energy Center	56.10%	10.00%	0.00%	0.00%	34.00%	915
5	Barefoot Bay Solar Energy Center	0.00%	9.71%	88.08%	0.00%	2.20%	734
6	Innovative Solar 42	20.00%	25.00%	0.00%	0.00%	55.00%	405
7	Woodland Solar	25.00%	5.00%	0.00%	0.00%	60.00%	615
8	Rutherford Farm	10.00%	40.00%	10.00%	0.00%	40.00%	180
9	Elm City Solar	20.00%	15.00%	10.00%	0.00%	50.00%	295
10	Lapeer Solar	60.00%	35.00%	0.00%	0.00%	5.00%	260

Overall, the majority of the surrounding acreage for each comparable solar farm is made up of agricultural land, some of which have homesteads. There are also smaller single-family home sites that adjoin the solar farms we have studied. We have found that these solar farms are sound comparables in terms of adjoining uses, location, and size.

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MARKET COMMENTARY

Additionally, we have contacted market participants such as appraisers, brokers, and developers familiar with property values around solar farms. Commentary from our conversations with these market participants is recorded below.

A Clark County, Kentucky Property Valuation Administrator, Jason Neely, noted there have been no complaints regarding East Kentucky Power Cooperative, Inc.'s Cooperative Solar One project installed in November 2017 located in the county, which has a capacity to generate 8.5 MW of electricity. Additionally, Neely stated he has not seen any evidence of lowered property values in the area and no reduction in assessed property values has been made due to proximity to the solar farm.

A Grant County, Kentucky Assessor stated that they have not seen a reduction in assessed property values or market values for adjacency to solar farms.

A McNairy County, Tennessee Assessor stated that they have not applied reductions to assessed value for adjacency to solar farms.

Christy Wingate, a real estate broker with Parker Real Estate Group, noted in her experience, the presence of a solar farm is neither an attraction nor a deterrent for nearby home buyers.

A Miami Dade County, Florida Assessor stated that they do not reduce assessed property values for adjacency to Solar Farms.

A Putnam County, Florida Assessor stated that they have not seen a reduction in assessed value for adjacency to Solar Farms.

Renee Davis, Tax Administrator for Bladen County, North Carolina, stated that she has not seen any effect on property values due to proximity to a solar farm.

We spoke with Jim Brown, an appraiser for Scotland County, North Carolina, who stated that he has seen no effect on property values due to proximity to a solar farm.

We spoke with Gary Rose, a tax assessor for Duplin County, North Carolina, who stated that he has seen no effect on property values in regards to proximity to a solar farm.

Kathy Renn, a property Valuation Manager for Vance County, North Carolina, stated that she has not noticed any effect on property values due to proximity to a solar farm.

Larry Newton, a Tax Assessor for Anson County, North Carolina, stated that there are six solar farms in the county ranging from 20 to 40 acres and he has not seen any evidence that solar farms have had any effect on property values due to proximity to a solar farm.

We spoke with Patrice Stewart, a Tax Administrator for Pasquotank County, North Carolina, and she has seen no effect on land or residential property values due to proximity to the solar farms in Pasquotank County.

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We spoke with the selling broker of the Adjoining Property for Elm City Solar, in North Carolina, Selby Brewer, who said the solar farm did not impact the buyer's motivation.

We spoke with Amy Carr, Commissioner of Revenue in Southampton County, Virginia, who stated that most of the solar farms are in rural areas but she has not seen any effect or made any adjustments on property values. They have evaluated the solar farm land considering a more intense use, which increased the assessed value.

The Interim Assessor for the town of Whitestown in Oneida County, New York, Frank Donato, stated that he has seen no impact on property values of properties nearby solar farms.

Steve Lehr at the Department of Assessment for Tompkins County, New York, mentioned that the appraisal staff has made no adjustments regarding assessed values of properties surrounding solar farms. Marketing times for properties have also stayed consistent. Lehr noted that a few of the solar farms in Tompkins County are on land owned by colleges and universities and a few are in rural areas.

At this point in time, Al Fiorille, Senior Valuation Specialist in the Tompkins County Assessment department in New York, reported that he cannot measure any negativity from the solar farms and arrays that have been installed within the county.

Mason Hass, the Riverhead Assessor in Suffolk County, on Long Island, New York stated that the solar farms in his town are in industrial zoned areas and he has not seen any impact on adjacent properties.

The Assessor for the town of Smithtown in Suffolk County, New York, Irene Rice, has not seen any impact on property values as a result of their location near the newly built solar farms in her town.

In the Assessor's office in the town of Seneca, Ontario County, New York, Shana Jo Hamilton stated that she has seen no impact on property values of properties adjacent to solar farms.

Michael Zazzara, Assessor of the City of Rochester in Monroe County, New York commented that the City has a couple of solar farms, and they have seen no impact on nearby property values and have received no complaints from property owners.

While there are one or two homes nearby to existing solar farms in the town of Lisbon in St. Lawrence County, New York, Assessor Stephen Teele has not seen any impact on property values in his town. The solar farms in the area are in rural or agricultural areas in and around Lisbon.

The Assessor for the Village of Whitehall in Washington County, New York, Bruce Caza, noted that there are solar farms located in both rural and residential areas in the village and he has seen no impact on adjacent properties, including any concerns related to glare from solar panels.

Laurie Lambertson, the Town Assessor for Bethlehem, in Albany County, New York noted that the solar farms in her area are tucked away in rural or industrial areas. Lambertson has seen no impact on property values in properties adjacent to solar farms.

We spoke with Ken Surface, a Senior Vice President of Nexus Group. Nexus Group is a large valuation group in Indiana and has been hired by 20 counties in Indiana regarding property assessments. Mr. Surface is familiar with the solar farm sites in Harrison County (Lanesville Solar Farm) and Monroe County (Ellettsville Solar Farm) and stated he has noticed no impact on property values from proximity to these sites.

We interviewed Missy Tetrick, a Commercial Valuation Analyst for the Marion County Indiana Assessor. She mentioned the Indy Solar III sites and stated that she saw no impact on land or property prices from proximity to this solar farm.

We spoke with Dorene Greiwe, Decatur County Indiana Assessor, and she stated that solar farms have only been in the county a couple of years, but she has seen no impact on land or property prices due to proximity to this solar farm.

Connie Gardner, First Deputy Assessor for Madison County Indiana, stated that there are three solar farms in her county, and she has seen no impact on land or property prices due to proximity to these solar farms.

We spoke with Tara Shaver, Director of Administration for Marion County, Indiana Assessor/Certified Assessor, and she stated that she has seen no impact on land or property prices due to proximity to solar farms.

Candace Rindahl of ReMax Results, a real estate broker with 16 years of experience in the North Branch, Minnesota area, said that she has been in most of the homes surrounding the North Star Solar Farm and personally sold two of them. She reported that the neighboring homes sold at market rates comparable to other homes in the area not influenced by the solar farm, and they sold within 45 days of offering, at the end of 2017, which was in line with the market.

Dan Squires, Chisago County Tax Assessor, confirmed that the Chisago County Assessor's Office completed their own study on property values adjacent to and in close vicinity to the solar farm from January 2016 to October 2017. From the study, the assessor determined the residential homes adjacent to the North Star Solar Farm were in-line with the market and were appreciating at the same rate as the market.¹⁴

14 Chisago County Press: County Board Real Estate Update Shows No "Solar Effects" (11/03/2017)

SOLAR FARM FACTORS ON HARMONY OF USE

The data from the solar farms included in this Property Value Impact Study, clearly indicates that solar farms are generally a compatible use with agricultural and residential uses.

The following section analyzes specific physical characteristics of solar farms and is based on research and our solar farm site visits.

Appearance: Most solar panels have a similar appearance to a greenhouse or single-story residence can range from 8 to 20 feet, but are usually not more than 15 feet high. As previously mentioned, developers generally surround a solar farm with a fence and often leave existing perimeter foliage, which minimizes the visibility of the solar farm. The physical characteristics of solar farms are compatible with adjoining agricultural and residential uses.

Sound: Solar panels in general are effectively silent and sound levels are minimal, like ambient sound. There are limited sound-emitting pieces of equipment on-site, which only produce a quiet hum (e.g. substation). However, these sources are not typically heard outside the solar farm perimeter fence.

Odor: Solar panels do not produce any byproduct or odor.

Greenhouse Gas (GHG) Emissions: Much of the GHG produced in the United States is linked to the combustion of fossil fuels, such as coal, natural gas, and petroleum, for energy use. Generating renewable energy from operating solar panels for energy use does not have significant GHG emissions, promoting cleaner air and reducing carbon dioxide (CO₂) emissions to fight climate change.

Traffic: The solar farm requires minimal daily onsite monitoring by operational employees and thus minimal operational traffic.

Hazardous Material: Modern solar panel arrays are constructed to U.S. government standards. Testing shows that modern solar modules are both safe to dispose of in landfills, and are also safe in worst case conditions of abandonment or damage in a disaster.¹⁵ Reuse or recycling of materials would be prioritized over disposal. Recycling is an area of significant focus in the solar industry, and programs for both batteries and solar panels are advancing every year. While the exact method of recycling may not be known yet as it is dependent on specific design and manufacturer protocol, the equipment is designed with recyclability of its components in mind, and it is likely that solar panel and battery energy storage recycling and reuse programs will only improve in 25 years' time.

Examples of homes built adjoining to solar farms are presented on the following pages.

¹⁵ Virginia Solar Initiative - Weldon Cooper Center for Public Service – University of Virginia
(<https://solar.coopercenter.org/taxonomy/term/5311>)



Innovative Solar 42 (2017)
Cumberland County, NC

Single Family Home Development (1)

- End-user built
- 2,933 SF
- Completed on 3/1/2019
- Cost estimate: \$170,300

Single Family Home Development (2)

- Developer built
- 4 Bedroom
- 3 Bathroom
- 2,401 SF
- Sold 6/18/19 for \$265,900 (\$110.75/sf)

Innovative Solar 42 (2019)
Cumberland County, NC

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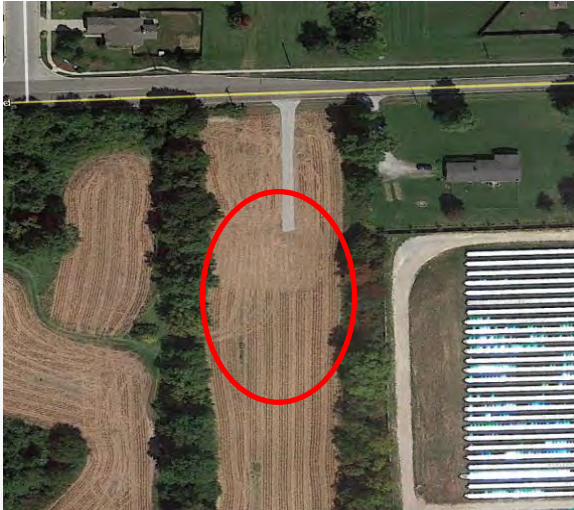
Developer Built Home

Sold 6/18/19 for \$265,900 (\$110.75/sf)

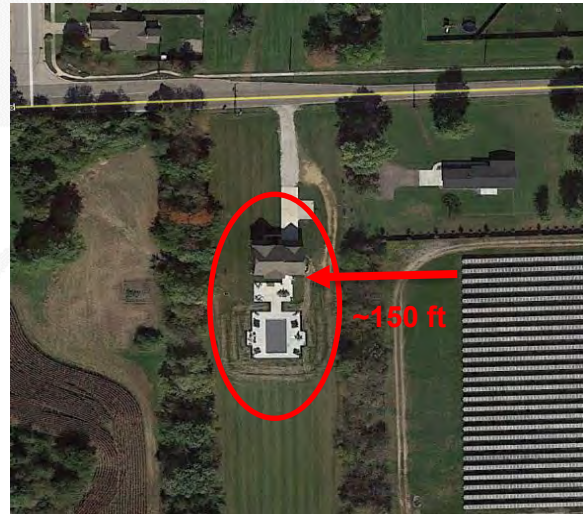
Cumberland County, NC (adjacent to Innovative 42 solar farm)

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For the solar farm Dominion Indy III, the adjacent land to the west was acquired and subsequently developed with a large estate home – after the solar panels had been in operation for years.



*Dominion Indy III Solar Farm
September 2014*



*Dominion Indy III Solar Farm
October 2016*



*Estate home adjacent to Dominion Indy III Solar Farm
On-site pool and attached garage (home cost estimated at \$450,000 - October 2015)*

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SUMMARY AND FINAL CONCLUSIONS

We have reviewed published methodology for measuring impact on property values as well as published studies that analyzed the impact of solar farms on property values. We have also interviewed market participants to give us additional insight as to how the market evaluates farmland and single-family homes with views of the solar farm. These studies found little to no measurable and consistent difference between the Test Area Sales and the Control Area Sales attributed to the solar farms. We then can conclude that since the Adjoining Property Sales (Test Area Sales) were not adversely affected by their proximity to the solar farm, that properties surrounding other proposed solar farms operating in compliance with all regulatory standards will similarly not be adversely affected, in either the short or long term periods.

The purpose of this property value impact study is to determine whether the presence of a solar farm has caused a measurable and consistent difference in values between the Test Area Sales and the Control Area Sales. A summary of our findings for the paired sales analyses is presented below, which analyzes all of the improved homes, and then an additional analysis summarizing the impact on adjacent residential lots and farmland.

CohnReznick Solar Analysis Conclusions									
Solar Farm No.	Solar Farm	Number of Test Area Sales	Number of Control Area Sales	Median Adjoining Property Sale Price per Unit (Test Area Sales)	Median Control Area Sales Price per Unit	Difference (%)	Avg. Feet from Panel to Lot	Avg. Feet from Panel to House	Impact Found
Single-Family Residential									
1	North Star Solar Group 1	3	11	\$151.93	\$139.50	+8.91%	123	358	No Impact
	North Star Solar Group 2	1	10	\$119.82	\$118.72	+0.92%	152	225	No Impact
	North Star Solar Group 3 *	1	6						
2	Indy Solar III Group 2	4	8	\$59.10	\$57.84	+2.18%	240	350	No Impact
	Indy Solar III Group 3	7	11	\$72.15	\$71.69	+0.65%	165	300	No Impact
3	Dougherty Solar	1	5	\$74.55	\$76.23	-2.21%	202	312	No Impact
5	Barefoot Bay Solar Energy Center Group 2	5	126	\$95.90	\$93.95	+2.07%	675	750	No Impact
6	Innovative Solar 42 Group 1	1	7	\$107.09	\$100.18	+6.91%	215	405	No Impact
	Innovative Solar 42 Group 2	1	7	\$111.77	\$105.34	+6.10%	240	300	No Impact
7	Rutherford Farm	1	6	\$53.46	\$52.49	+1.85%	135	180	No Impact
8	Elm City Solar	1	8	\$56.60	\$55.57	+1.85%	255	295	No Impact
9	Woodland Solar	1	5	\$144.63	\$137.76	+4.99%	420	615	No Impact
10	DTE Lapeer Solar Group 1	3	7	\$86.12	\$85.92	+0.24%	220	260	No Impact
	DTE Lapeer Solar Group 2	1	4	\$94.84	\$91.80	+3.31%	165	250	No Impact
Median Variance in Sale Prices for Test Area Sales to Control Area Sales						+2.07%			

31 Adjoining Test Area Sales studied and compared to 221 Control Area Sales

* Note, the paired sale analysis for this group is an outlier as determined earlier in this report and was excluded from this summary table.

Land (Agricultural/Single Family Lots)									
Solar Farm No.	Solar Farm	Number of Test Area Sales	Number of Control Area Sales	Median Adjoining Property Sale Price per Unit (Test Area Sales)	Median Control Area Sales Price per Unit	Difference (%)	Avg. Feet from Panel to Lot	Avg. Feet from Panel to House	Impact Found
2	Indy Solar III Group 1	1	4	\$8,210	\$8,091	+1.47%	280	-	No Impact
4	Miami-Dade Solar Energy Center	3	6	\$82,491	\$80,686	+0.76%	766	-	No Impact
5	Barefoot Bay Solar Energy Center Group 1	2	7	\$54,500	\$51,000	+6.86%	475	-	No Impact
Median Variance in Sale Prices for Test to Control Areas						+1.47%			

6 Adjoining Test Area Sale studied and compared to 17 Control Area Sales

Most of the solar farms under study reflected sales of property adjoining an existing solar farm in which the unit sale prices were effectively the same or higher, except for one, than the comparable Control Area sales that were not near a solar farm. The conclusions support that there is no negative impact for improved residential homes adjacent to solar, nor for residential development lots or agricultural acreage.

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Furthermore, Grant County, Kentucky Property Value Administrator, Elliott Anderson, told us that Duke Energy built a solar farm near Crittenden, adjacent to existing homes on Claiborne Drive in December 2017. There have been nine arm's length homes sales on that street since the solar farm came online, due to normal market conditions. Each of those nine homes sold higher than its Assessed Value, one over 32 percent higher. The Assessed Values in Grant County are based on 100 percent Fair Market Values as determined by the Property Value Administrator's office. Anderson noted that several more lots are for sale by the developer and four more homes are currently under construction, set to deliver in 2021. Anderson said that the solar farm had no impact either on adjoining home values or on marketability or desirability of those homes adjacent to the solar farm. Anderson added, the homes sold at market prices in a market that has been experiencing a boom since at least mid-2019.

Based upon our examination, research, and analyses of the existing solar farm uses, the surrounding areas, and an extensive market database, we have concluded that no consistent negative impact has occurred to adjacent property that could be attributed to proximity to the adjacent solar farm, with regard to unit sale prices or other influential market indicators. Additionally, in our workfile we have retained analyses of additional test subjects, each with their own set of matched control sales, which had consistent results, indicating no consistent and measurable impact on adjacent property values. This conclusion has been confirmed by numerous county assessors who have also investigated this use's potential impact on property values.

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If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

CohnReznick LLP



Andrew R. Lines, MAI
Principal- Valuation Advisory Services
Certified General Real Estate Appraiser

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Expires 11/30/2022
Indiana License No. CG41500037
Expires 6/30/2022
Kentucky License 5663
Expires 6/30/2021
Georgia License No. 360939
Expires 10/31/2021



Patricia L. McGarr, MAI, CRE, FRICS
National Director - Valuation Advisory Services
Certified General Real Estate Appraiser

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CERTIFICATION

We certify that, to the best of our knowledge and belief:

1. The statements of fact and data reported are true and correct.
2. The reported analyses, findings, and conclusions in this consulting report are limited only by the reported assumptions and limiting conditions, and are our personal, impartial, and unbiased professional analyses, findings, and conclusions.
3. We have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
4. We have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
5. We have no bias with respect to the property that is the subject of this report or the parties involved with this assignment.
6. Our engagement in this assignment was not contingent upon developing or reporting predetermined results.
7. Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value finding, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this report.
8. Our analyses, findings, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute, which includes the Uniform Standards of Professional Appraisal Practice (USPAP).
9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives.
10. Patricia L. McGarr, MAI, CRE, FRICS and Andrew R. Lines, MAI have viewed the exterior of all comparable data referenced in this report in person, via photographs, or aerial imagery.
11. We have not relied on unsupported conclusions relating to characteristics such as race, color, religion, national origin, gender, marital status, familial status, age, and receipt of public assistance income, handicap, or an unsupported conclusion that homogeneity of such characteristics is necessary to maximize value.
12. Sonia K. Singh, MAI, Michael F. Antypas, Amanda G. Edwards, and TJ Schemmel. provided consulting assistance to the persons signing this certification, including data verification, research, and administrative work all under the appropriate supervision.
13. We have experience in reviewing properties similar to the subject and are in compliance with the Competency Rule of USPAP.
14. As of the date of this report, Patricia L. McGarr, MAI, CRE, FRICS, Andrew R. Lines, MAI, and Sonia K. Singh, MAI have completed the continuing education program for Designated Members of the Appraisal Institute.

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ASSUMPTIONS AND LIMITING CONDITIONS

The fact witness services will be subject to the following assumptions and limiting conditions:

1. No responsibility is assumed for the legal description provided or for matter pertaining to legal or title considerations. Title to the property is assumed to be good and marketable unless otherwise stated. The legal description used in this report is assumed to be correct.
2. The property is evaluated free and clear of any or all liens or encumbrances unless otherwise stated.
3. Responsible ownership and competent management are assumed.
4. Information furnished by others is believed to be true, correct and reliable, but no warranty is given for its accuracy.
5. All engineering studies are assumed to be correct. The plot plans and illustrative material in this report are included only to help the reader visualize the property.
6. It is assumed that there are no hidden or unapparent conditions of the property, subsoil, or structures that render it more or less valuable. No responsibility is assumed for such conditions or for obtaining the engineering studies that may be required to discover them.
7. It is assumed that the property is in full compliance with all applicable federal, state, and local and environmental regulations and laws unless the lack of compliance is stated, described, and considered in the evaluation report.
8. It is assumed that the property conforms to all applicable zoning and use regulations and restrictions unless nonconformity has been identified, described and considered in the evaluation report.
9. It is assumed that all required licenses, certificates of occupancy, consents, and other legislative or administrative authority from any local, state, or national government or private entity or organization have been or can be obtained or renewed for any use on which the value estimate contained in this report is based.
10. It is assumed that the use of the land and improvements is confined within the boundaries or property lines of the property described and that there is no encroachment or trespass unless noted in this report.
11. The date of value to which the findings are expressed in this report apply is set forth in the letter of transmittal. The appraisers assume no responsibility for economic or physical factors occurring at some later date which may affect the opinions herein stated.
12. Unless otherwise stated in this report, the existence of hazardous materials, which may or may not be present on the property, was not observed by the appraisers. The appraisers have no knowledge of the existence of such substances on or in the property. The appraisers, however, are not qualified to detect such substances. The presence of substances such as asbestos, urea-formaldehyde foam insulation, radon gas, lead or lead-based products, toxic waste contaminants, and other potentially hazardous materials may affect the value of the property. The value estimate is predicated on the

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assumption that there is no such material on or in the property that would cause a loss in value. No responsibility is assumed for such conditions or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

13. The forecasts, projections, or operating estimates included in this report were utilized to assist in the evaluation process and are based on reasonable estimates of market conditions, anticipated supply and demand, and the state of the economy. Therefore, the projections are subject to changes in future conditions that cannot be accurately predicated by the appraisers and which could affect the future income or value projections.
14. Fundamental to the appraisal analysis is the assumption that no change in zoning is either proposed or imminent, unless otherwise stipulated. Should a change in zoning status occur from the property's present classification, the appraisers reserve the right to alter or amend the value accordingly.
15. It is assumed that the property does not contain within its confined any unmarked burial grounds which would prevent or hamper the development process.
16. The Americans with Disabilities Act (ADA) became effective on January 26, 1992. We have not made a specific compliance survey and analysis of the property to determine if it is in conformance with the various detailed requirements of the ADA. It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA, could reveal that the property is not in compliance with one or more of the requirements of the Act. If so, this fact could have a negative effect on the value of the property. Unless otherwise noted in this report, we have not been provided with a compliance survey of the property. Any information regarding compliance surveys or estimates of costs to conform to the requirements of the ADA are provided for information purposes. No responsibility is assumed for the accuracy or completeness of the compliance survey cited in this report, or for the eventual cost to comply with the requirements of the ADA.
17. Any value estimates provided in this report apply to the entire property, and any proration or division of the total into fractional interests will invalidate the value estimate, unless such proration or division of interests has been set forth in this report.
18. Any proposed improvements are assumed to have been completed unless otherwise stipulated; any construction is assumed to conform with the building plans referenced in this report.
19. Unless otherwise noted in the body of this report, this evaluation assumes that the subject does not fall within the areas where mandatory flood insurance is effective.
20. Unless otherwise noted in the body of this report, we have not completed nor are we contracted to have completed an investigation to identify and/or quantify the presence of non-tidal wetland conditions on the subject property.
21. This report should not be used as a basis to determine the structural adequacy/inadequacy of the property described herein, but for evaluation purposes only.
22. It is assumed that the subject structure meets the applicable building codes for its respective jurisdiction. We assume no responsibility/liability for the inclusion/exclusion of any structural

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component item which may have an impact on value. It is further assumed that the subject property will meet code requirements as they relate to proper soil compaction, grading, and drainage.

23. The appraisers are not engineers, and any references to physical property characteristics in terms of quality, condition, cost, suitability, soil conditions, flood risk, obsolescence, etc., are strictly related to their economic impact on the property. No liability is assumed for any engineering-related issues.

The evaluation services will be subject to the following limiting conditions:

1. The findings reported herein are only applicable to the properties studied in conjunction with the Purpose of the Evaluation and the Function of the Evaluation as herein set forth; the evaluation is not to be used for any other purposes or functions.
2. Any allocation of the total value estimated in this report between the land and the improvements applies only to the stated program of utilization. The separate values allocated to the land and buildings must not be used in conjunction with any other appraisal and are not valid if so used.
3. No opinion is expressed as to the value of subsurface oil, gas or mineral rights, if any, and we have assumed that the property is not subject to surface entry for the exploration or removal of such materials, unless otherwise noted in the evaluation.
4. This report has been prepared by CohnReznick under the terms and conditions outlined by the enclosed engagement letter. Therefore, the contents of this report and the use of this report are governed by the client confidentiality rules of the Appraisal Institute. Specifically, this report is not for use by a third party and CohnReznick is not responsible or liable, legally or otherwise, to other parties using this report unless agreed to in writing, in advance, by both CohnReznick and/or the client or third party.
5. Disclosure of the contents of this evaluation report is governed by the by-laws and Regulations of the Appraisal Institute has been prepared to conform with the reporting standards of any concerned government agencies.
6. The forecasts, projections, and/or operating estimates contained herein are based on current market conditions, anticipated short-term supply and demand factors, and a continued stable economy. These forecasts are, therefore, subject to changes with future conditions. This evaluation is based on the condition of local and national economies, purchasing power of money, and financing rates prevailing at the effective date of value.
7. This evaluation shall be considered only in its entirety, and no part of this evaluation shall be utilized separately or out of context. Any separation of the signature pages from the balance of the evaluation report invalidates the conclusions established herein.
8. **Possession of this report, or a copy thereof, does not carry with it the right of publication, nor may it be used for any purposes by anyone other than the client without the prior written consent of the appraisers, and in any event, only with property qualification.**

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9. The appraisers, by reason of this study, are not required to give further consultation or testimony or to be in attendance in court with reference to the property in question unless arrangements have been previously made.
10. Neither all nor any part of the contents of this report shall be conveyed to any person or entity, other than the appraiser's client, through advertising, solicitation materials, public relations, news, sales or other media, without the written consent and approval of the authors, particularly as to evaluation conclusions, the identity of the appraisers or CohnReznick, LLC, or any reference to the Appraisal Institute, or the MAI designation. Further, the appraisers and CohnReznick, LLC assume no obligation, liability, or accountability to any third party. If this report is placed in the hands of anyone but the client, client shall make such party aware of all the assumptions and limiting conditions of the assignment.
11. This evaluation is not intended to be used, and may not be used, on behalf of or in connection with a real estate syndicate or syndicates. A real estate syndicate means a general or limited partnership, joint venture, unincorporated association or similar organization formed for the purpose of, and engaged in, an investment or gain from an interest in real property, including, but not limited to a sale or exchange, trade or development of such real property, on behalf of others, or which is required to be registered with the United States Securities and Exchange commissions or any state regulatory agency which regulates investments made as a public offering. It is agreed that any user of this evaluation who uses it contrary to the prohibitions in this section indemnifies the appraisers and the appraisers' firm and holds them harmless from all claims, including attorney fees, arising from said use.

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**ADDENDUM A:
APPRAISER QUALIFICATIONS**

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Patricia L. McGarr, MAI, CRE, FRICS, CRA
Principal,
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Patricia L. McGarr, MAI, CRE, FRICS, CRA, is a principal and National Director of CohnReznick Advisory Group's Valuation Advisory Services practice who is based in Chicago. Pat's experience includes market value appraisals of varied property types for acquisition, condemnation, mortgage, estate, ad valorem tax, litigation, zoning, and other purposes. Pat has been involved in the real estate business since 1980. From June 1980 to January 1984, she was involved with the sales and brokerage of residential and commercial properties. Her responsibilities during this time included the formation, management, and training of sales staff in addition to her sales, marketing, and analytical functions. Of special note was her development of a commercial division for a major Chicago-area brokerage firm.

Since January 1984, Pat has been exclusively involved in the valuation of real estate. Her experience includes the valuation of a wide variety of property types including residential, commercial, industrial, and special purpose properties including such diverse subjects as quarries, marinas, riverboat gaming sites, shopping centers, manufacturing plants, and office buildings. She is also experienced in the valuation of leasehold and leased fee interests. Pat has performed appraisal assignments throughout Illinois and the Chicago Metropolitan area as well as Wisconsin, Indiana, Michigan, New York, New Jersey, California, Nevada, Florida, Utah, Texas, and Ohio. Pat has gained substantial experience in the study and analysis of the establishment and expansion of sanitary landfills in various metropolitan areas including the preparation of real estate impact studies to address criteria required by Senate Bill 172. She has also developed an accepted format for allocating value of a landfill operation between real property, landfill improvements, and franchise (permits) value.

Over the past several years, Pat has developed a valuation group that specializes in serving utility companies establish new utility corridors for electric power transmission and pipelines. This includes determining acquisition budgets, easement acquisitions, and litigation support. Pat has considerable experience in performing valuation impact studies on potential detrimental conditions and has studied properties adjoining landfills, waste transfer stations, stone quarries, cellular towers, schools, electrical power transmission lines, "Big Box" retail facilities, levies, properties with restrictive covenants, landmark districts, environmental contamination, airports, material defects in construction, stigma, and loss of view amenity for residential high rises.

Pat has qualified as an expert valuation witness in numerous local, state and federal courts.

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Pat has participated in specialized real estate appraisal education and has completed more than 50 courses and seminars offered by the Appraisal Institute totaling more than 600 classroom hours, including real estate transaction courses as a prerequisite to obtaining a State of Illinois Real Estate Salesman License.

Pat has earned the professional designations of Counselors of Real Estate (CRE), Member of the Appraisal Institute (MAI), Fellow of Royal Institution of Chartered Surveyors (FRICS) and Certified Review Appraiser (CRA). She is also a certified general real estate appraiser with active licenses in numerous states.

Education

- North Park University: Bachelor of Science, General Studies

Professional Affiliations

- National Association of Realtors
- CREW Commercial Real Estate Executive Women
- IRWA International Right of Way Association

Appointments

Appointed by the Governor in 2017 to the State of Illinois' Department of Financial & Professional Regulation's Real Estate Appraisal Board; Vice-Chairman - 2018

Licenses and Accreditations

- Member of the Appraisal Institute (MAI)
- Counselors of Real Estate, designated CRE
- Fellow of Royal Institution of Chartered Surveyors (FRICS)
- Certified Review Appraiser (CRA)
- Alabama State Certified General Real Estate Appraiser
- California State Certified General Real Estate Appraiser
- Connecticut State Certified General Real Estate Appraiser
- District of Columbia State Certified General Real Estate Appraiser
- Illinois State Certified General Real Estate Appraiser
- Indiana State Certified General Real Estate Appraiser
- Louisiana State Certified General Real Estate Appraiser
- Maryland State Certified General Real Estate Appraiser
- Massachusetts State Certified General Real Estate Appraiser
- Michigan State Certified General Real Estate Appraiser
- Nevada State Certified General Real Estate Appraiser
- New Jersey State Certified General Real Estate Appraiser
- New York State Certified General Real Estate Appraiser
- North Carolina State Certified General Real Estate Appraiser
- Indiana State Certified General Real Estate Appraiser
- South Carolina State Certified General Real Estate Appraiser
- Tennessee State Certified General Real Estate Appraiser

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- Texas State Certified General Real Estate Appraiser
- Virginia State Certified General Real Estate Appraiser
- Wisconsin State Certified General Real Estate Appraiser

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Andrew R. Lines, MAI

Principal – Real Estate Valuation,
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Andrew R. Lines, MAI, is a principal for CohnReznick Advisory Group's Valuation Advisory practice who is based in the Chicago office and has been a CohnReznick employee for over six years. Andrew has been involved in the real estate business for more than 15 years and has performed valuations on a wide variety of real property types including single- and multi-unit residential (including LIHTC), student housing, office, retail, industrial, mixed-use and special purpose properties including landfills, waste transfer stations, marinas, hospitals, universities, telecommunications facilities, data centers, self-storage facilities, racetracks, CCRCs, and railroad corridors. He is also experienced in the valuation of leasehold, leased fee, and partial interests, as well as purchase price allocations (GAAP, IFRS and IRC 1060) for financial reporting.

Valuations have been completed nationwide for a variety of assignments including mortgage financing, litigation, tax appeal, estate gifts, asset management, workouts, and restructuring, as well as valuation for financial reporting including purchase price allocations (ASC 805), impairment studies, and appraisals for investment company guidelines and REIS standards. Andrew has qualified as an expert witness, providing testimony for eminent domain cases in the states of IL and MD. Andrew has also performed appraisal review assignments for accounting purposes (audit support), asset management, litigation and as an evaluator for a large Midwest regional bank.

Andrew has earned the professional designation of Member of the Appraisal Institute (MAI). He has also qualified for certified general commercial real estate appraiser licenses in Arizona, California, Maryland, Florida, Wisconsin, Georgia, Illinois, Indiana, New Jersey and New York. Temporary licenses have been granted in Connecticut, Colorado, Ohio, Indiana, Idaho, Kansas, Minnesota and South Carolina.

Education

- Syracuse University: Bachelor of Fine Arts

Professional Affiliations

- Chicago Chapter of the Appraisal Institute - Alternate Regional Representative (2016 – 2018)
- International Real Estate Management (IREM)
- National Council of Real Estate Investment Fiduciaries (NCREIF)

Community Involvement

- Fellows Alumni Network - World Business Chicago, Founding member
- Syracuse University Regional Council – Active Member

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Sonia K. Singh, MAI

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Sonia K. Singh, MAI is a senior manager in CohnReznick Advisory Group's Valuation Advisory practice and based in the Bethesda office. For the past eight years, she has engaged in real estate valuation and other real estate consulting services and valued over \$5 billion in real property.

Sonia is adept at valuing a variety of commercial real estate across the United States, including the following complex property types: athletic clubs; full-service hotels and beach resorts; marinas; historic redevelopment projects; recycling facilities; single-family rental home portfolios; master planned communities; and for-sale residential units or subdivisions. She has also performed real estate appraisals involving leasehold interests, air rights ownership, and right-of-way fee simple and easement acquisitions for utility corridors. She has performed these and other appraisals others for purposes including financial reporting, estate planning, gift and estate tax, bond and conventional financing, litigation (eminent domain), and asset management, with the ability to handle appraisals of large portfolios in expedited timeframes. With significant experience in the appraisal of senior living facilities including continuing care retirement communities, skilled nursing facilities, assisted living and memory care facilities, as well as age-restricted housing, Ms. Singh has elevated the firm's modelling of complex healthcare property ownership structures to help illuminate debt/income and lease coverage ratios for federal courts, resulting in millions of dollars in recovered credits for clients.

Additionally, Sonia is experienced in purchase price allocations (GAAP, IFRS, and IRC 1060) for financial reporting, including the early adoption of ASU 2017-01. She has also provided valuation services related to highest and best use analysis, market feasibility studies, and useful life analysis. She has prepared impact studies measuring the possible detrimental impact of economic and environmental influences on property values, including those related to high-voltage transmission lines, distribution warehouses, and solar farms. She has provided expert witness testimony at local county zoning hearings for proposed solar energy uses and their potential detrimental impacts on adjacent property values.

Education

- University of Illinois: Bachelor of Science, Actuarial Science

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Professional Affiliation, Licenses, and Exams

- MAI - Appraisal Institute, Designated Member
- Urban Land Institute, Associate Member
- Certified General Real Estate Appraiser with Active Licenses in DC and the States of MD, MO, and VA
- Successful completion of the following actuarial exams: Probability (1/P), Financial Mathematics (2/FM), and Models for Financial Economics (3/MFE)

Awards and Recognitions

- 2019 National Association of Certified Valuators and Analysts (NACVA) and the Consultants Training Institute (CTI) 40 Under Forty Honoree

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Michael F. Antypas

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Michael Antypas is a senior consultant in CohnReznick Advisory Group's Valuation Advisory Services practice and is based in the Bethesda office. He has assisted other associates and appraisers in the valuation of a variety of retail shopping centers, hotels, market rate and restricted rental apartment properties, Class A office complexes with GSA tenants, mixed-use properties, developable land, and **single-family** rental home portfolios owned by REITs. He has also completed solar farm impact studies, appraisals for eminent domain disputes, as well as purchase price allocations on various senior living facilities, medical office buildings, and retail centers. In addition, Michael is certified in working with Argus Enterprise valuation software. He is a practicing affiliate in the Appraisal Institute and is working towards becoming a Certified General Real Estate Appraiser.

He graduated from the Villanova School of Business in May of 2016. Some of his other experience working in Real Estate originated through interning with commercial brokers. Throughout his senior year in college, Michael interned with Newmark Grubb Knight Frank as a Capital Markets intern. There he helped create and revise many marketing packages for the firm's senior managing directors. He also assisted in developing underwriting models and projections for offering memorandums. He also worked with a boutique restaurant broker in Washington D.C., Papadopoulos Properties where he compiled market research for his client's use and surveyed prospective restaurants to gauge their interest in expanding to the Washington D.C. market.

Education

- Villanova University: Bachelor of Business Administration, Finance and Real Estate, Minor in Business Analytics

Certifications

- Argus Enterprise Certified

Professional Affiliations

- Appraisal Institute, Practicing Affiliate

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TJ Schemmel

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TJ Schemmel is a senior consultant in CohnReznick Advisory Group's Valuation Advisory Services practice and is based in the Chicago office. His scope of experience includes assisting other appraisers in performing solar farm impact studies and various special use appraisals. TJ is a licensed Associate Real Estate Trainee Appraiser in Illinois.

Prior to joining CohnReznick, TJ was a financial analyst at Avison Young, specializing in office tenant representation and land development. Over the five years in this position, he participated in office lease negotiations and real estate transactions for companies ranging in size from small start-ups to large multinational corporations. His diverse skill set allowed him to help numerous teams at Avison Young close more than \$150 million of lease transactions. He also supported the land development team on numerous multifamily and office projects for Chicago based investors.

Education

- University of Cincinnati: Bachelor of Business Administration

Other Affiliations

- Chicago Tutoring - Associate Board Member

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Amanda G. Edwards

Consultant, Valuation Advisory Services

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Amanda Edwards is a consultant in CohnReznick's Valuation Advisory Services practice group and is based in Chicago. Amanda has assisted other appraisers in the valuation of a variety of industrial properties, medical offices, hotels, multifamily properties, condominium developments, retail and mixed-use properties, developable and open space land, and single-family subdivisions. She has also assisted with appraisals and continuing consulting for eminent domain litigation. Additionally, Amanda has provided audit support for Assurance clients of the firm. Amanda is a licensed Associate Real Estate Trainee Appraiser in Illinois, working toward becoming a Certified General Real Estate Appraiser.

Before joining CohnReznick, Amanda worked at the Inland Group of companies valuing properties and underwriting, as well as assisting in the closing of, commercial mortgage loans, nationwide. Property types included industrial, office, multi-family, retail, and hotel, with an emphasis on value-add properties and new construction projects. Amanda has also worked as a commercial lender for builder-developer housing at Fifth Third Bank, specializing in the Chicago metro area. She has also worked valuing senior housing properties and associated business models for acquisition purposes at a senior housing developer/operator.

Amanda has spent considerable time in the consulting environment, developing and conducting in-depth interviews for primary research in a variety of industries such as technology, financial institutions, and industrial manufacturing for private equity clients.

Education

- Bryn Mawr College, Bachelor of Arts

Licenses and Affiliations

- Licensed Associate Real Estate Trainee Appraiser in Illinois
- Practicing Affiliate – Appraisal Institute
- Chicago Real Estate Council - Member

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Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2

Tab 11

Attachment A

Exhibit 2

Legal Property Descriptions
(52 Pages)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 111-50 (198.48 acres)

Beginning at a stone corner to Emma S. White in line of the Sosh Jordon land, and running thence S. 18 ½ degrees East 165 poles to a stone in Claycomb's line; thence West 155 poles to a stone at the big road; thence South 85 degrees West 266 poles to a pile of rock or tree in Jordon's line; thence North 63 degrees East 253 poles to a stone near the house; thence North 19 degrees West 9 poles to a stone; thence North 69 degrees East 134 poles to a post oak; thence North 66 ½ degrees East 25 poles to the beginning, containing two hundred acres more or less.

There is excepted and not conveyed out of the above described property, a certain tract of land containing 1.5186 acres, located in Breckinridge County, Kentucky, and is more particularly described as follows, to-wit:

Beginning at a 5/8" rebar in the northeasterly R/W of Kentucky Highway 333 being North 40 degrees 39 minutes 18 seconds West, 233.53' from a post corner to J. Pollack (Deed Book 92, Page 261); thence with new lines in B. Stansbury North 65 degrees 48 minutes 22 seconds East, passing a 5/8" rebar at 370.16' and continuing 4.00' to an unmarked point; thence South 27 degrees 43 minutes 17 seconds East, 197.03' to a 5/8" rebar; thence South 68 degrees 29 minutes 1 second West, 326.29' to a 5/8" rebar in said R/W; thence with said R/W, a curve to the right having a radius of 2285.64' and a long chord at North 42 degrees 35 minutes 35 seconds West, 191.19' to the beginning and containing 1.5186 acres (more or less) per physical survey by Timothy W. Smith. L.S. 2373.

BEING the same property conveyed to Stansbury Farm, LLC, a Kentucky limited liability company from Allison T. Willoughby by Deed dated April 23, 2018, and recorded in Deed Book 411 page 228, in the Office of the County Clerk of Breckinridge County, Kentucky. BEING the same property conveyed to Allison T. Willoughby by Deed dated February 18, 2016, and recorded in Deed Book 392 page 577, in the Office of the County Clerk of Breckinridge County, Kentucky.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 123-2

A certain tract or parcel of land in Breckinridge County, Kentucky about one mile west from Irvington on the O. L. Norton road and described as follows:

Beginning at a ½ inch steel rod set on the southwest of said road at Ova Wright's corner, thence crossing the road and running with P. L. Kasey's lines North 49-06 East 986.6 feet to a ½ inch steel rod at a fence corner, South 44-03 East 263.7 feet to a ½ inch steel rod at a fence corner, North 50-52 East 331.1 feet to a 1/2 inch steel rod at fence corner, North 39-05 West 1514.1 feet to a ½ inch steel rod at a fence corner, and North 51-55 East 478.9 feet to a ½ inch steel rod at a fence post corner to Van Lahr Farms, thence with Van Lahr's line North 09-35 West 859.7 feet to a ½ inch steel rod set a fence post corner to J. D. Tobin, Jr., thence with Tobin's lines South 74-33 West 3129.0 feet to a ½ inch steel rod at a fence corner, South 22-27 East 458.1 feet to a ½ inch steel rod at a fence corner, and South 69-19 West 2759.5 feet to a stone at Johnson's corner, thence with Johnson's line South 00-21 West 860.3 feet to a post oak and a steel rod at William Alexander's corner, thence with Alexander's lines North 86-10 East 2404.5 feet to a ½ inch steel rod at a fence corner, South 13-03 East 2450.9 feet to a ½ inch steel rod at a fence corner, North 76-23 East 501.8 feet to a ½ inch steel rod at a fence corner, and South 18-24 East 681.8 feet to a ½ inch steel rod and post oak at Richardson's corner, thence with Richardson's line North 67-28 East

992.4 feet to a steel rod at a fence corner to Ova Wright, thence with Wright's lines North 03-55 West 1317.5 feet to a steel rod at a fence corner, North 40-22 West 617.1 feet to a steel rod at a fence corner, and North 49-13 East 1139.3 feet to the beginning, and containing 358.7 acres, more or less. Surveyed under the supervision of Joseph E. Jarboe, LS 2077, during April, 1982, using the random traverse method with closure error of 1:9000, and a magnetic basis of bearings.

BEING the same property conveyed to Willoughby-Norton Farm, LLC, by deed from Allison T. Willoughby dated April 23, 2018 and recorded in Deed Book 411, Page 225, Breckinridge County Clerk's Office.

BEING the same property conveyed to Allison T. Willoughby by Deed dated February 18, 2016, and recorded in Deed Book 392 page 573, in the Office of the County Clerk of Breckinridge County, Kentucky.

BEING the same property conveyed to Allison T. Willoughby by Deed dated February 18, 2016, and recorded in Deed Book 392 page 569, in the Office of the County Clerk of Breckinridge County, Kentucky.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 122-8A

Located in Breckinridge County, Ky., and consisting of 393.20 acres, situated 3 miles northwest of Irvington, and on the Irvington and Webster Road, and more particularly described as follows, to-wit:

FIRST TRACT: Beginning at a post at road at the rock quarry and corner to the Cliff Mattingly Farm, thence south 9 1/2 degrees east 82 poles to a post; thence south 11 degrees east 18 poles to post, corner to Greenwood farm; thence south 83 1/2 degrees west 112 poles to Cedar, thence south 78 degrees west 86 poles to post near barn, corner to Greenwood Farm, thence south 1 degree west 68 1/2 poles to post, thence south 80 degrees west 81 poles to post at old quarry, thence North 3 1/2 degrees East 18 poles to pike, corner to quarry, thence south 77 degrees west 24 poles to pike, corner to quarry, thence north 2 degrees west 47 poles to a stone, thence north 5 1/2 degrees west 36 poles to a stake, thence north 10 degrees west 68 poles to Road, thence with road north 81 1/4 degrees east 303 poles to the beginning and containing 226 1/5 acres.

SECOND TRACT: Beginning at a post near R. R. and corner to Carter Farm in Mattingly line; thence south 11 degrees east 92 poles to post, corner to Percy Kasey, thence south 74 degrees west 189 1/2 poles to Kasey; thence north 23 degrees west 20 poles to stone, corner to Johnson of color, thence south 67 degrees west 117 poles to pike corner to quarry; thence north 3 1/4 east 60 poles to post, corner to Carter Farm; thence north 80 degrees east 81 poles to a post near sink, corner to Carter farm, thence north 1 degree east 68 1/2 poles to gate post, near farm and corner to Carter farm, thence north 78 degrees east 86 poles to cedar, thence north 83 1/2 degrees east 112 poles to the beginning and containing 164.31 acres.

THIRD TRACT: Beginning at a stone in B. W. Carter's line south 24 east 50 poles to a stone, corner to O. L. Norton, thence with his line south 65 1/2 west 151 poles to a stone in Norton's line and corner to Haynes Johnson, thence with Johnson's line north 23 2/3 east 78 poles to a white oak tree at a sink hole in Carter's line, thence with Carter's line north 66 east 93 1/4 poles to the beginning, containing 39 acres, more or less.

FOURTH TRACT: Beginning at a point in the boundary line of the property of the Grantor formerly property of J. G. Harris and the property of the Grantee being corner to the property of the latter running thence north 87 1/2 degrees east 400 feet to an iron stake, thence 54 degrees east 1089 feet to an iron stake, thence south 82 3/4 degrees west 400 feet, thence north 4 degrees west 1122 feet to the point of beginning, containing 10 acres, more or less.

BEING the same property conveyed to Dennis Ray Willoughby and Allison T. Willoughby by deed from J. D. Tobin dated December 26, 2002 and recorded in Deed Book 286, Page 648, Breckinridge County Clerk's Office.

The property is the same property conveyed to J. D. Tobin, Jr. from J. D. Tobin, Sr. and Mary H. Tobin, his wife, by deed dated April 28, 1969 and recorded in Deed Book 115 at page 489 in the Breckinridge County Clerk's Office.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 122-26 (17.13 acres)

BEGINNING at the southwest corner of tract conveyed by B. W. Carter and wife to J. G. Harris, which tract is described in Deed Book 53, Page 319, in the Office of the Clerk of Breckinridge County, Kentucky, and be reference made a part thereof; thence South 9 degrees West 94 poles; thence South 76 degrees West 6 poles; thence South 20 degrees East 56 $\frac{1}{4}$ poles; thence South 7 degrees East 6 $\frac{1}{2}$ poles; thence North 82 $\frac{3}{4}$ degrees East 16 poles; thence North 4 degrees West 120 poles; thence North 12 $\frac{1}{4}$ degrees West 32 $\frac{1}{2}$ poles to the beginning.

Real Property Tax Parcel No. 122-25 (111.69 acres)

A certain tract or parcel of land lying and being in Breckinridge County, Kentucky about 2 miles West of Irvington, and bounded and described as follows, to-wit:

Beginning at an iron stake (set) on the west side of the old Kentucky Stone Quarry Road, said point being about 500 feet southerly along said road from the L&N Railroad and about 0.3 miles southerly from the intersection of said road with Kentucky Highway #477; thence with agreed lines of J. D. Tobin, Jr. South 07 degrees 58 minutes West, 1550.7 feet to an iron spike; thence South 75 degrees 50 minutes West, 99.0 feet to an iron spike; thence South 16 degrees 35 minutes East, 982.6 feet to an iron stake; thence North 86 degrees 44 minutes East, 330.6 feet; thence North 84 degrees 44 minutes East 313.0 feet to a steel post (found); thence South 02 degrees 05 minutes East, 142.0 feet to an iron pipe (found); thence North 60 degrees 40 minutes East, 366.9 feet to a 24-inch White Oak; thence South 21 degrees 21 minutes West 1284.7 feet to an iron stake (set) at a stone, a corner to Tobin and O. L. Norton; thence with line of Norton South 64 degrees 58 minutes West, 239.7 feet to a steel rod (found) at a Post Oak, a corner to Norton and Wayne Basham; thence with lines of Basham North 15 degrees 18 $\frac{1}{2}$ minutes West, 543.3 feet to a steel rod (found); thence North 89 degrees 44 minutes West, 1218.6 feet to a stone (found), a corner to Basham and B. J. Stansbury; thence with line of Stansbury North 20 degrees 58 minutes West, 2491.8 feet to a stone (found), a corner to Stansbury and Martha Pollock; thence line of Pollock and J. D. Tobin, Jr. North 66 degrees 48 $\frac{1}{2}$ minutes East, 2178.0 feet to the point of beginning, containing 111.69 acres, more or less, with bearings referred to the original deed bearing along the northerly property line (+0 degrees 18 $\frac{1}{2}$ minutes), according to field survey by D.R. Clemons, KY Reg L.S. #1894, on January 2, 1988.

BEING the same property conveyed to Johnson Farm, LLC, a Kentucky limited liability company from Allison T. Willoughby by Deed dated April 23, 2018, and recorded in Deed Book 411 page 231, in the Office of the County Clerk of Breckinridge County, Kentucky.

BEING the same property conveyed to Allison T. Willoughby by Deed dated February 18, 2016, and recorded in Deed Book 392 page 569, in the Office of the County Clerk of Breckinridge County, Kentucky.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 123-6B (178.26 acres)

TRACT 1:

Beginning at a stone in Peyton Claycomb's line on the County road, thence S 34 E 180 poles to a stone on the County road and Winn's line, N 66½ E 80 poles to a white oak, thence N 77½ E 120-2/3 poles to 5 oaks, thence N 56 W 158 poles to a post oak and Bandys line, thence N 19 W 61 poles to a stone in P.R. Claycombs line, thence with P. R. Claycombs line S 66½ W 151 poles to the beginning, containing 170-3/4 acres, more or less.

There is excepted out of the above boundary two acres, sold to Benton Bandy; thence beginning at a stone seventeen (17) feet from a hickory in the southeast corner of R.A. Claycombs farm, running thence S 56½ E 615 feet to five post oaks, an original corner of the Claycomb tract of which this is a part, thence S 80 W 374 feet to a post oak near the old road, thence with said road N 16 W 454 feet to the beginning.

BEING the same property conveyed to Charles R. Smith and Joyce Smith, his wife, by deed from Gilbert Wortham and Nellie L. Wortham, his wife, dated February 10, 1970 and recorded in Deed Book 116, page 497, Breckinridge County Clerk's Office.

There is however excepted out of the above described property and heretofore conveyed a certain tract or parcel of land conveyed by Charles R. Smith and Joyce Smith, his wife, to Charles E. Smith by deed dated January 15, 1983 and recorded in Deed Book 165, page 321, said clerk's office, consisting of 0.84 acres, more or less, and being further described as follows, to-wit:

A certain tract of land in Breckinridge County, Kentucky on Kentucky Highway No. 333 about 1.5 miles northerly from Highway No. 60 and described as follows:

Beginning at a nail in the top of a locust corner post in the east margin of Highway No. 333 and at the southwest corner of the parent tract, thence North 32-31 West 167.67 feet to a nail in another locust post in the east margin of said Highway, thence severing the parent tract North 61-18 East 201.69 feet to a nail in the top of a cedar post, thence again severing the parent tract South 32-20 East 200.97 feet to a nail on top on a power pole fence post in Neff's line, thence with Neff's line South 70-36 West 206.00 feet to the beginning. and containing 0.84 acres, more or less. Surveyed by Joseph E. Jarboe, LS 2077, December 8, 1982, using the random traverse method with closure error of 1:14000 and a magnetic basis of bearings.

EXCEPTING THEREFROM

The following described property is a portion of the Charles R. and Joyce Smith property (D.S. 116, pg. 497); said property is located in Breckinridge County, Kentucky.

The point of beginning is a set iron pin in the northeast R/W of Ky. Hwy. 333 (60' R/W); said point is North 32 degrees 43 minutes 52 seconds West a distance of 846.35 feet from an existing crosstie the corner of the Charles E. Smith property, thence continuing with the Northeast R/W of Ky. Hwy. 333 for four calls North 25 degrees 49 minutes 48 seconds West for a distance of

107.78 feet to a point, thence North 24 degrees 13 minutes 08 seconds West for a distance of 96.85 feet to a point, thence North 23 degrees 40 minutes 00 seconds West for a distance of 153.23 feet to a point, thence North 24 degrees 09 minutes 11 seconds West for a distance of 145.76 feet to a set iron pin, thence with a new division line of the Charles R & Joyce Smith property for four calls North 71 degrees 17 minutes 11 seconds East for a distance of 368.23 feet to a set iron, thence North 76 degrees 08 minutes 16 seconds East for a distance of 322.51 feet to a set iron pin, thence South 31 degrees 44 minutes 11 seconds East for a distance of 317.47 feet to a set iron pin, thence South 58 degrees 15 minutes 51 seconds West for a distance of 730.22 feet to the point of beginning.

Said property contains 6.7427 acres per physical survey by Wiseman Engineering (JOHN WISEMAN-Ky. PLS #3065).

TRACT 2:

BEGINNING at a corner post corner to Smith; thence N. 12-¹/₄° W. 365' to a corner post corner to Stone & Bandy; thence with Stone & Sandy's line S. 75-³/₄° W. 649' to an oak tree; thence S. 85° W. 115' to walnut tree; thence S. 71° W 1882' to a fence post 30' from center of Highway #333; thence with Highway S. 28° E. 489' to a stake corner to Smith; thence with Smith's line N. 70-³/₄° E. 2513' to beginning and containing 26.1 acres of land more or less.

BEING the same property conveyed to Charles R. Smith and Anna Joyce Smith, his wife, by deed from Alec G. Stone and Judith G. Stone, his wife, dated March 22, 1976 and recorded in Deed Book 140, page 37, Breckinridge County Clerk's Office.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 123-7 (141.87 acres)

PARCEL I

A certain tract of land lying in Breckinridge County, Ky., and bounded as follows: Beginning at a stone corner to Geo. McCoy in Rhodes line and running thence with his line S. 40 w. 16 poles to a post oak; thence S. 82-1/2 W. 132 poles to a post oak in Mrs. Orendof's line; thence with said line S. 17 E. 94 poles to a post oak, Mrs. Orendof's corner; thence with her line S. 54 E. 142. poles to a post oak; thence S. 33 E. 16 poles to a post oak Herndon's line; thence with his line N. 63-1/2 E. 91 poles to a hickory, black oak and post oak, Geo. McCoy's corner; thence with his line N. 22 w. 40 poles to a hickory and white oak; thence S. 76 w. 31 poles to a rock near a fence; thence N. 17-1/2 W. 148 poles to the beginning, containing 171 acres.

There is, however, excepted out of the above described boundary of land and not herein conveyed, the tract or parcel of land sold and conveyed by Lawrence Bandy and Mildred Bandy, his wife, to Finis Meador, in the spring of 1946, and containing approximately 12 to 14 acres, the deed for which has not been recorded at this time.

Being the same property acquired by WILLIAM R. MONIN, JR., by General Warranty Deed dated January 16, 1995, of record in Deed Book 230, Page 455, in the Office of the Clerk of Breckinridge County, Kentucky.

PARCEL II

Two tracts or parcels of land lying in Breckinridge County, Kentucky about 2 miles West of Irvington and North of Highway No. 60 bounded and described as follows:

First Tract: Beginning at a stone 17 feet from a hickory in the S.E. corner of R.A. Claycombs; running thence S. 53-1/2 E 615 to five post oaks in the original line, corner of the Claycomb tract, of which this is a part; thence S. 80 w. 374 feet to a post oak near an old road; thence with said road N. 16 w. 454 feet to the beginning containing 2 acres more or less.

Second tract: Adjoining the above described tract and beginning at a stone 17 feet from a hickory in the S.E. corner of R.A. Claycombs farm running thence NW 263 feet to a rock; thence E 714 feet to a rock; thence NE 400 feet to a stone; thence E 610 feet to a stone; thence s. 160 feet to a stone; thence SW 1210 feet to five post oaks, thence with the line of the 2 acres to the beginning, containing 14 acres more or less.

Being the same property acquired by WILLIAM R. MONIN, JR., by General Warranty Deed dated January 16, 1995, of record in [Deed Book 230, Page 455](#), in the Office of the Clerk of Breckinridge County, Kentucky.

ALSO BEING the same property conveyed to Gordon Board and Bennett Board, his wife, by deed from the heirs of Willie Alexander, namely, Charles T. Harper, unmarried, Joseph Harper, Jr. and Sherry Harper, his wife, and Ronald Harper and Evangeline Harper, his wife, dated January 2, 1985 and recorded in Deed Book 172, page 134, Breckinridge County Clerk's Office. Willie Alexander died intestate on July 17, 1973 a resident of Breckinridge County, Kentucky, see Affidavit of Descent filed for record in Deed Book 230, page 434 said clerk's office.

EXCEPTING FROM ALL OF THE ABOVE, THE FOLLOWING PARCELS:

EXCEPTION 1

EXCEPTING THEREFROM so much of said property as was sold off and conveyed to CHRISTOPHER C. SQUIRES and ELIZABETH SQUIRES, husband and wife, by Deed dated November 14, 2016, of record in Deed Book 399 Page 59, in the Office of the Clerk of Breckinridge County, Kentucky,

BEING a 7.000 acre tract located northwest of the end of Seven Oaks Lane and northwest of US Highway 60, west of the city of Irvington, Breckinridge County, Kentucky, more particularly described as follows:

BEGINNING at a set 5/8" rebar being referenced at N 14 deg. 54 min. 57 sec. W., 394.12' from a found 20" post oak being the southeast corner of C. E. Smith (DB 296 PG 203) and the southwest corner of W. R. Monin Jr (DB 230 PG 455); THENCE with C. E. Smith N 14 deg. 54 min. 57 sec. W., 102.47' to a set 5/8" rebar; THENCE N 48 deg. 59 min. 38 sec. W., 924.02' to a set 5/8" rebar being referenced at S 48 deg, 59 min. 38 sec. E., 1028.33' from a set 5/8" rebar at the location of an old corner post; THENCE leaving said C. E. Smith with new lines in said W. R. Monin Jr N 58 deg. 26 min. 32 sec. E., 236.01' to a set 5/8" rebar; THENCE S 78 deg. 38 min. 02 sec. E., 200.00' to a set 5/8" rebar; THENCE S 46 deg. 38 min. 16 sec. E., 814.18' to a set 5/8" rebar; THENCE S 42 deg. 56 min. 01 sec. W., 133.26' to a set 5/8" rebar; THENCE S 52 deg. 45 min. 04 sec. W., 219.44' to the POINT OF BEGINNING and CONTAINING 7.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during October, 2016, per Job No. 16-213.

Being a portion of the same property conveyed to William R. Monin, Jr., by deed dated January 16, 1995, from Gordon Board and Bennett Board, husband and wife, of record in Deed Book 230, page 455, in the Office of the Breckinridge County Clerk.

EXCEPTION 2:

EXCEPTING THEREFROM so much of said property as was sold off and conveyed to CHERI L. GREENWELL and THOMAS L. PROBUS, by Deed dated June 1, 2018, of record in Deed Book 411 Page 584, in the Office of the Clerk of Breckinridge County, Kentucky,

BEING a 5.869 acre tract located north of the end of Seven Oaks Lane, approximately 4/10 mile from intersection of US Highway 60, near the city of Irvington, Breckinridge County, Kentucky, more particularly described as follows:

BEGINNING at a found 20" post oak corner to A. T. Willoughby (DB 392 PG 573), W. R. Monin Jr (DB 230 PG 455) and Lot 178 Plainview Farms (PB 1, PG 73) (R. Dore, DB 306 PG 526 and DB 243 PG 332); THENCE with A. T. Willoughby N 17 deg. 04 min. 16 sec. W., 33.22' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 being the TRUE POINT OF BEGINNING of this tract; THENCE with new lines in said W. R. Monin Jr N 69 deg. 59 min. 32 sec. W., passing a point at the end of a 50' Ingress/ Egress Easement at 227.51', a total distance of 358.44' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE N 87 deg. 51 min. 22 sec. W., 264.73' to a set 5/8" rebar; THENCE N 11 deg. 54 mi 58 sec. W., 384.66' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to said A. T. Willoughby; THENCE with A. T. Willoughby N 77 deg. 21 min. 37 sec. E., 502.90' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE S 17 deg. 04 min. 16 sec. E., 647.49' to the POINT OF BEGINNING and CONTAINING 6.773 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during May, 2018, per Job No. 16-224B.

BEING a part of the same property conveyed to William R. Monin, Jr., from Gordon Board and Bernett Board, his wife, by deed dated January 16, 1995 and recorded in Deed Book 230, page 455, Breckinridge County Clerk's Office.

EXCEPTION 3:

EXCEPTING THEREFROM so much of said property as was sold off and conveyed to THOMAS L. PROBUS and CHERI L. GREENWELL, by Deed dated October 13, 2018, of record in Deed Book 414, Page 457, in the Office of the Clerk of Breckinridge County, Kentucky,

BEING a 0.264 acre tract located at the end of Seven Oaks Lane, approximately 4/10 mile from intersection of US Highway 60, near the city of Irvington, Breckinridge County, Kentucky, more particularly described as follows:

BEGINNING at a found 20" post oak corner to Willoughby-Norton Farm LLC (DB 411 PG 225), W. R. Monin Jr (DB 230 PG 455) and Lot 178 Plainview Farms (PB 1, PG 73) (R. Dore, DB 306 PG 526 and DB 243 PG 332); THENCE with Lot 178 and Plainview Farms plat, S 68 deg. 31 min. 54 sec. W., 50.00' to a point in the right-of-way of Seven Oaks Lane being referenced at N 68 deg. 31 min. 54 sec. E., 8.14' from the centerline of said lane; THENCE leaving said Plainview Farms plat with new lines in said W.R. Monin Jr N 60 deg. 04 min. 33 sec. W., 346.19' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to C. Greenwell, et al (DB 411 PG 584); THENCE with C. Greenwell, etal S 69 deg. 59 min. 32 sec. E., passing a point at the end of a 50' Ingress/Egress Right-of-way Easement at 130.93', a total distance of 358.44' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 in the line of said Willoughby-Norton Farm LLC; THENCE with Willoughby-Norton Farm LLC S 17 deg. 04 min. 16 sec. E., 33.22' to the POINT OF BEGINNING and CONTAINING 0.264 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during May, 2018, per Job No. 16-224B.

BEING a part of the same property conveyed to William R. Monin, Jr., from Gordon Board and Burnett Board, his wife, by deed dated January 16, 1995 and recorded in Deed Book 230, page 455, Breckinridge County Clerk's Office.

EXCEPTION 4:

EXCEPTING THEREFROM so much of said property as was sold off and conveyed to JEFFREY WILLIAM ROBINSON and SONIA ELIZA ROBINSON, husband and wife, by Deed dated October 30, 2018, of record in Deed Book 415, Page 113, in the Office of the Clerk of Breckinridge County, Kentucky,

BEING a 16.000-acre tract located at the end of Seven Oaks Lane, approximately 4/10 mile from intersection of US Highway 60, near the City of Irvington, Breckinridge County, Kentucky, more particularly described as follows: BEGINNING at a set 5/8" rebar in the line of Plainview Farms (PB 1 PG 61 and PB 1 PG 73) and in the right-of-way of Seven Oaks Lane being referenced at S 68 deg. 31 min. 54 sec. W., 50.00' from a found 20" post oak corner to Willoughby-Norton Farm LLC (DB 411 PG 225), W.R. Monin Jr (DB 230 PG 455) and Lot 17B Plainview Farms (PB 1, PG 73) (R. Dore; DB 306 PG 526 and DB 243 PG 332); THENCE with the right-of-way of Seven Oaks Lane and continuing with Lot BB Plainview Farms (PB 1 PG 61) (B. Priest, DB 340 PG 57) S 68 deg. 31 min.. 54 sec. W., passing the centerline of said lane at 8.14', a total distance of 503.66' to a found 1" pipe in the fence line corner to Lot 3A (C. Willock, DB 336 PG 319 Tract 11); THENCE with Lot 3A, S 69 deg. 03 min. 07 sec. W., 201.05' to a found 1" pipe in said fence line corner to Lot 2A (J. Dewitt, DB 412 PG 324); THENCE with Lot 2A, S 69 deg. 47 min. 41 sec, W., 199.75' to a found 3/4" pipe with elbow in said fence line corner to Lot 1A (W. 0. Dewitt, DB 260 PG 596); THENCE with Lot 1A, S 68 deg. 54 min. 20 sec. W., 26.72' to a set 5/8" rebar; THENCE leaving said Lot 1A with new lines in said W, R. Monin Jr N. 02 deg. 28 min. 05 sec. W., passing a point in the centerline of an existing 30' Ingress & Egress Easement at 357.85', a total distance of 530.17' to a set 5/8" rebar; THENCE N 87 deg. 51 min. 22 sec. W., 405.04' to a set 5/8" rebar being referenced at N 62 deg. 24 min. 57 sec. E., 187.41' from a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to C. Squires (DB 399 PG 59); THENCE N 20 deg 39 min. 07 sec. W., 500,99' to a set 5/8" rebar; THENCE N 81 deg. 51 min. 31 sec: E., 788,25'10 a point in the base of an 18" walnut tree in the line of said Willoughby-Norton Farm LLC; THENCE with Willoughby- Norton Farm LLC S 11 deg. 54 min. 511 sec. E., 236.55' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to C. Greenwell, et al.(DB 411 PG 584); THENCE with C. Greenwell, et al S 11 deg. 54 min. 58 sec. E., 384.66' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE S 87 deg. 51 min. 22 sec. E., 264.73' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE with new lines in said W. R. Monin Jr S 60 deg. 04 min. 33 sec, E., 346.19' to the POINT OF BEGINNING and CONTAINING 16.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during August 2017, per Job No. 16-224A.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 122-13

The following described property, real estate and tract of land located in Breckinridge County, Kentucky and bounded and described as follows, to-wit: Beginning at a stone corner to the Church Lot, thence S. 51-1/4 W. 34.27 chains to a lime stone rock, Edd Blissett's corner in Ken Bandy's line, thence with said Bandy's line as follows: N 39 W. 21.65 chains, thence N. 66 E. 15.52 chains to a stone, thence N. 38-1/2 E. 11.84 chains to cedar fence post, thence N. 57 E. 30 links to another cedar fence post, thence N. 39-1/4 W. 51.70 chains to said Bandy's corner in Henry Livers line, thence with said Liver's line N. 41-1/4 E. 14.51 chains to a pile of rock by a hickory and ash; thence S. 45-1/2 E. 12.69 chains to a stone corner of the four acre tract, thence N. 44-1/4 E. 6.50 chains to a black oak and stone, Albert Wallace's corner, thence N. 41-1/4 E. 7.38 chains to Stith's corner on West side of a public road, thence with said road S. 39 W. 6.50 chains to line of first tract thence with said road S. 41 E. 34.25 chains to a cedar, thence with said road S. 42 E. 29.24 chains to the beginning and containing 171 acres more or less.

ALSO

The following described real estate, about one and one-half miles West of Irvington, Breckinridge County, Kentucky, and more particularly described as follows:

A tract or parcel of land lying and being in Breckinridge County, State of Kentucky and described as follows: Beginning at a stake and line post corner of Lee Butler and Hendrick Miller, thence north 41 degrees west 224 poles and 200 hundred feet to a stone in Kinball's line, now Lester Dowell line; thence with his line north 51-1/2 degrees east 62 poles to a stone at a point in the corner of Butler, Miller and Dowell line; thence south 41 degrees east 249-1/2 poles to a stone Aker's corner, now Butler's corner; thence south 62-1/2 degrees west 63-1/2 poles to a stake Aker's corner, now Miller's corner, the beginning point, containing 92 acres, more or less.

BEING the same property conveyed to Jamie Barger and Jean Barger, his wife, by deed from Lee Butler and Verona Butler (a/k/a Veronica Butler), his wife, dated November 5, 2003 and recorded in Deed Book 294, page 45, Breckinridge County Clerk's Office.

There is, however, EXCEPTED out of the above-described property, the following off-conveyances, to-wit:

1) Off-conveyance of 96.236 acres, more or less, as evidenced by deed from Jamie Barger and Jean Barger, his wife, to Richard Lee Barger, single, dated March 10, 2004 and recorded in Deed

Book 296, page 554, said clerk's office, to which deed reference is hereby given for a more particular description thereof.

2) Off-conveyance of 19.573 acres, more or less, as evidenced by deed from Jamie Barger and Jean Barger, his wife, to George R. Cecil and Carolyn J. Cecil, his wife, dated March 26, 2004 and recorded in Deed Book 296, page 707, said clerk's office, to which deed reference is hereby given for a more particular description thereof.

3) Off-conveyance of 1.01 acres, more or less, as evidenced by deed from Jamie Barger and Jean Barger, husband and wife, to Jeremy Barger and Kristen Barger, both single persons, dated April 13, 2004 and recorded in Deed Book 297, page 320, said clerk's office, to which deed reference is hereby given for a more particular description thereof.

4) Off-conveyance of 1.049 acres, and 0.396 acres as evidenced by deed from Jamie Barger and Jean Barger, his wife, to Jeremy Barger and Kristen Barger, his wife, dated April 22, 2005 and recorded in Deed Book 307, page 738, said clerk's office, to which deed reference is hereby given for a more particular description thereof.

5) Off conveyance of 3.000 acres, more or less, as evidenced by deed from Jamie Barger and Jean Barger, his wife, to Steven Gary Barger, dated February 7, 2013 and recorded in Deed Book 367, page 707, said clerk's office, to which deed reference is hereby given for a more particular description thereof.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

TRACT ONE

Real Property Tax Parcel No. 122-19

Beginning in center of road corner to Charley Hawes; thence North 49 degrees east 120 poles to stone Hawes' corner; thence South 41 1/2 degrees east 120 poles to stone corner to Murray Butler; thence north 52 1/2 degrees east 67 1/2 poles to willow corner to Wilbur Dowell; thence north 39 1/2 degrees west 14 poles to cottonwood corner to Dowell; thence north 13 degrees east 4 poles to post Dowell's corner; thence north 42 1/2 degrees west 88 poles to stone corner to Randall Stith; thence south 44 1/2 degrees west 192 poles to center of road Stith's corner; thence down said road south 41 1/2 degrees east 71 2/3 poles to the beginning and containing 100 8/10 acres of land as surveyed by G. D. Richardson on July 22, 1939. BEING the same property conveyed to Irvington K & K Enterprises, LLC, from Kevin L. Kasey and Leslie Kasey, his wife, and Kerry R. Kasey and Martha N. Kasey, his wife, by deed dated January 2, 1996 and recorded in Deed Book 237, page 516, Breckinridge County Clerk's Office.

TRACT TWO:

Real Property Tax Parcel No. 133A-1A

A certain tract or parcel of land on the Mount Merino Cemetery Road near the intersection of said road with Kentucky Highway #79 in Breckinridge County, Kentucky, and being more particularly described as follows: Being Parcel #8, consisting of 2.909 acres; Parcel #9, consisting of 2.872 acres; Parcel #10, consisting of 2.835 acres; Parcel #11, consisting of 2.798 acres; Parcel #12, consisting of 2.734 acres; Parcel #13, consisting of 2.548 acres; Parcel #14, consisting of 2.161 acres; Parcel #20, consisting of 1.316 acres; Parcel #21, consisting of 3.474 acres; Parcel #22, consisting of 3.483 acres; Parcel #23, consisting of 3.328 acres; Parcel #24, consisting of 9.059 acres; Parcel #25, consisting of 7.475 acres; Parcel #26, consisting of 8.811 acres; Parcel #27, consisting of 4.518 acres; Parcel #28, consisting of 2.240 acres; Parcel #29, consisting of 2.043 acres; Parcel #30, consisting of 1.954 acres; Parcel #32, consisting of 2.944 acres; Parcel #33, consisting of 2.975 acres; Parcel #34, consisting of 3.011 acres; Parcel #35, consisting of 3.316 acres; as shown on the plat of "GLADYS SMITH PROPERTY" as prepared by Smith Engineering and Land Surveys, Inc., Registered Land Surveyor #2373 with said plat recorded at Plat Cabinet A, Slide 321, in the Breckinridge County Clerk's Office, to which plat reference is hereby given for a more particular description of said property. BEING the same property conveyed to Irvington K & K Enterprises, LLC, from Charles Richard Smith and Paul

Edward Smith, Co-Executors of the estate of Gladys M. Smith, deceased, by deed dated January 12, 1999 and recorded in Deed Book 257, page 222, said clerk's office.

TRACT THREE:

Real Property Tax Parcel No. 122-18

A certain tract or parcel of land lying and being partly in Breckinridge County, Kentucky, and partly in Meade County, Kentucky, and near the town of Irvington, and bounded and described as follows: Beginning at a stone, corner in John Akers line, thence N 40 W 72 poles to a stone, Akers corner, N 40 E 26 poles to post, Akers corner; N 46 W 22-2/3 poles to Albert Wallace corner, N 35 E 38-2/3 poles to a stone, Albert Wallace's corner; N 29-1/2 W 16 poles to a stone, Oscar Millers corner; N 55-1/2 E 126 poles to a stone, Tom Hardesty's corner; S 41 E 98 poles to a post, Albert Wallace's corner; S 44 W 191 poles to the beginning and containing 118.4 acres of land.

THE ABOVE DESCRIBED PROPERTY HAS BEEN RESURVEYED AND THE BELOW LEGAL DESCRIPTION IS INCLUDED HEREIN SO AS TO PUT THIS NEW SURVEY TO RECORD

Being a 101.355 acre tract of land in the community of Irvington, Breckinridge County, Kentucky, more particularly described as follows: Unless stated otherwise, any monument referred to herein as a 5/8" rebar" is a set 5/8" diameter steel concrete reinforcing rod, eighteen (18") in length, with a yellow plastic cap stamped T.W. Smith, LS 2373. All bearings stated herein are based on the bearing on the southwesterly line of the R. DeWitt property from a previous survey.

BEGINNING at a 5/8" rebar set on the northeasterly right-of-way of Mt. Merino Cemetery Road corner to W. Casteel (DB 387 PG 537); THENCE with said W. Casteel N 56 deg. 00 min. 16 sec. E., 204.80' to a 5/8" rebar set; THENCE N 36 deg. 43 min. 55 sec. W., 200.00' to a 5/8" rebar set in the line of R. Evans (DB 143 PG 134); THENCE with said R. Evans (DB 143 PG 134) and continuing with R. Evans (DB 178 PG 259) N 56 deg. 23 min. 30 sec. E., 808.52' to a 5/8" rebar set corner to L. Breeding (DB 111 PG 037); THENCE with said L. Breeding N 55 deg. 07 min. 45 sec. E., 607.00' to a 5/8" rebar set corner to A. Hicks (DB 344 PG 050); THENCE with said A. Hicks N 54 deg. 55 min. 09 sec. E., 476.56' to a found stone; THENCE S 41 deg. 15 min. 31 sec. E., 1505.63' to a found stone corner to Irvington K & K Enterprises, LLC, (DB 237 PG 516); THENCE leaving said A. Hicks with said Irvington K & K Enterprises, LLC, S 43 deg. 50 min. 55 sec. W., 2364.36' to a 5/8" rebar set; THENCE leaving said Irvington K & K Enterprises, LLC, with new lines in R. Lawson (DB 128 PG 469) N 46 deg. 09 min. 05 sec. W., 336.94' to a 5/8" rebar set; thence S 45 deg. 10 min. 43 sec. W., 740.74' to a 5/8" rebar set on the northeasterly right-of-way of said Mt. Merino Cemetery Road; THENCE with the right-of-way of said Mt. Merino Cemetery Road the following chordal courses: N 40 deg. 48 min. 37 sec. W., 575.78'; N 37 deg. 32 min. 14 sec. W., 76.39'; N 28 deg. 38 min. 50 sec. W., 76.41'; N 11 deg. 06 min. 52 sec. W., 44.18'; N 12 deg. 00 min. 13 sec. E., 70.30'; N 29 deg. 07 min. 51 sec. E., 95.79'; N 33 deg. 36 min. 01 sec. E., 178.53' to a 5/8" rebar set corner to R.

DeWitt (DB 252 PG 667); THENCE leaving said Mt. Merino Cemetery Road with said R. DeWitt S 50 deg. 54 min. 40 sec. E., 406.40 to 5/8" rebar set; THENCE N 28 deg. 33 min. 35 sec. E., 455.51' to a 5/8" rebar set, THENCE N 54 deg. 46 min. 54 sec. W., 405.99' to a 5/8" rebar set on the southerly right-of-way of said Mt. Merino Cemetery Road, THENCE with the right-of-way of said Mt. Merino Cemetery Road the following chordal courses: N 20 deg. 29 min. 38 sec. E., 155.64'; N 08 deg. 45 min. 42 sec. E., 73.80'; N 06 deg. 58 min. 50 sec. W., 66.85'; N 24 deg. 57 min. 44 sec. W., 58.43'; N 38 deg. 11 min. 08 sec. W., 201.64' to the POINT OF BEGINNING and CONTAINING 101.355 Acres more or less, according to a survey by Timothy W. Smith, PLS #2373 during July 1998 per Job No. 98-193. BEING the same property conveyed to Irvington K. & K. Enterprises, LLC, a limited liability company, from the Estate of Myrtie V. Lawson, by and through Robert Elmer Lawson, Jr., Executor of the Estate of Myrtie V. Lawson, by deed dated February 24, 2003 and recorded in Deed Book 288, page 257, said clerk's office.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 122-13A

Being a 96.236 acre tract located on the Southwesterly right-of-way of Mt. Merino Cemetery Road near the community of Irvington, Breckinridge County, Kentucky, more particularly described as follows: Beginning at a set 5/8" rebar on the Southwesterly right-of-way of Mt. Merino Cemetery Road corner to Mt. Merino Catholic Church (DB 32 PG 373); thence with said Mt. Merino Catholic Church S 45 deg. 22 min. 59 sec. W., 254.32' to a set 5/8" rebar corner to D. Carman (DB 251 PG 570); thence with said D. Carman S 49 deg. 58 min 22 sec. W., 648.00' to a found 1/2" rebar with cap stamped K. Clemmons, LS 2811 corner to R. Lucas (DB 282 PG 188); thence with said R. Lucas S 49 deg. 58 min. 22 sec. W., 1,331.41' to a found 1/2" rebar with cap stamped K. Clemmons, LS 2811 in the line of J. Bandy (DB 135 PG 212); thence with said J. Bandy N 41 deg. 11 min. 24 sec. W., 1,621.74' to a found 5/8" rebar with cap stamped LS 2373 corner to J. Richardson (DB 253 PG 483); thence with said J. Richardson N 41 deg. 25 min. 29 sec. W., 339.43' to a set 5/8" rebar; thence leaving said J. Richardson with a new line in J. Barger (DB 294 PG 045) N 52 de g. 38 min. 48 sec. E., 2,161.13' to a set 5/8" rebar on the Southwesterly right-of-way of said Mt. Merino Cemetery Road; thence with the Southwesterly right-of-way of said Mt. Merino Cemetery Road the following chordal courses: S 43 deg. 51 min. 27 sec. E., 963.4 7' to a set 5/8" rebar; thence S 43 deg. 20 min. 54 sec. E., 879.73' to the point of beginning and containing 96.236 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during February, 2004, per Job No. 04-126. Unless stated otherwise, any monument referred to herein as a "5/8" rebar is a set 5/8" diameter steel concrete reinforcing rod, twenty-four inches (24") in length, with a yellow plastic cap stamped T. W. Smith, LS 2373. The basis of bearings stated herein are based on the J. Richardson (DB 253 PG 483) property from a previous survey.

Being the same property conveyed to Richard L. Barger, Trustee of the Richard Barger Living Trust dated March 14, 2013, from Richard Lee Barger by deed dated March 14, 2013, recorded in Deed Book 368, Page 641, in the Office of the Clerk of the County Court of Breckinridge County, Kentucky.

Real Property Tax Parcel No. 122-2

Being a 141.19 acre tract located on the southerly right-of-way of KY HWY 261 near the community of Webster, Breckinridge County, Kentucky, and more particularly described as follows: Beginning at an existing 5/8 inch rebar (T.W. Smith Cap #2373) on the southerly right-of-way of KY HWY 261 (40' R/W) northwest corner to The Stith Family Revocable Living Trust (Deed Book 356, Page 162) Thence with said R/W N 84 deg. 51 min. 34 sec. 14.97 feet to an existing 5/8 inch rebar (T.W. Smith Cap #2373); Thence N 87 deg. 43 min. 10 sec. E, 116.92 feet to a set rebar; Thence N 82 deg. 21 min. 27 sec, E, 152.64 feet to a set rebar; Thence N 80 deg. 36

min. 52 sec. E, 90.75 feet to a set rebar and being the true point of beginning; Thence continuing with KY. Hwy 261 right-of-way the following calls: Thence N 81 deg. 10 min. 03 sec. E. 221.60 feet to set rebar; Thence with a curve of radius 470.44 feet and a chord bearing of N 67 deg. 33 min. 07 sec. E and chord distance of 222.38 feet to a set rebar; Thence N 53 deg. 52 min. 50 sec. E, 400.75 feet to a set rebar; Thence N 54 deg. 16 min. 33 sec. E, 310.86 feet to a set rebar; Thence N 53 deg. 44 min. 40 sec. E, 405.37 feet to a set rebar; thence N 53 deg. 53 min. 32 sec. E, 295.64 feet to a set rebar, Thence N 53 deg. 16 min. 39 sec. E, 138.50 feet to a set rebar; thence N 51 deg. 31 min. 37 sec. E, 104.02 feet to a set rebar; Thence N 50 deg. 20 min. 40 sec E, 207.09 feet to a set rebar; Thence leaving said right-of-way S 38 deg. 00 min. 27 sec. E, 10.00 feet to an existing 5/8" rebar (T.W. Smith Cap #2373), said point being the northwest property corner to lot 19 of Agricultural Division Plat of Aloysius and Nona King Farm recorded in P.C. 6 Slide 160 in the Meade County, KY, Clerks Office; thence with southwesterly line of lot 19 for a distance of 1839.35 feet and then continuing with lot 24 for a total distance of 2589.52 feet with bearing S 38 deg. 00 min. 27 sec E to an existing 5/8 inch rebar (Stamped Clemens), said point being the northeast corner to Joseph and Rebecca Richardson (Deed Book 282, Page 628); Thence leaving lot 24 and with line of said Richardson S 44 deg. 09 min. 58 sec. W, 1911.54 feet to an existing wood fence post, said point the southeast corner to J. D. Tobin, Jr. (Deed Book 180, Page 673); Thence leaving said Richardson and with line of said Tobin N 51 deg. 07 min. 13 sec. W, 978.24 feet to an existing wood fence post while passing a witness monument, a 5/8 inch rebar with cap stamped M. L. Manion Cap #3374 at 10 feet and at 968.24 feet; Thence continuing with line of Tobin N 55 deg. 18 min. 23 sec. W, 1327.03 feet to a set rebar, Thence leaving said Tobin with newly created line N 57 deg. 27 min. 21 sec. E, 159.07 feet to a set rebar; thence with newly created line N 32 deg. 32 min. 39 sec. W, 870.96 feet to the point-of-beginning - 141.19 Acres of land per survey conducted by Mark L. Manion PLS #3374 during September 2011 per job number 11046. Unless otherwise stated, any monument referred herein as a set rebar is a set 5/8 inch diameter steel concrete reinforced rod, 18 inches in length with yellow plastic cap stamped "ML. Manion, PLS 3374". Minor Plat Survey for M.R. Stith Jr. recorded in Plat Cabinet B, Slide 359.

Being the same property conveyed to Richard L. Barger, Trustee of the Richard Barger Living Trust dated March 14, 2013, from Jamie Barger and Jean Barger by deed dated September 30, 2016, recorded in Deed Book 398, Page 291, in the Office of the Clerk of the County Court of Breckinridge County, Kentucky.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

Louisville, KY 40202-3363

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Parcel Identification Number: 133A-1D (21.89 acres)

A certain tract or parcel of land on the Mount Merino Cemetery Road near the intersection of said road with Kentucky Highway #79 in Breckinridge County, Kentucky, and being more particularly described as follows:

Being Parcel #31, consisting of 6.398 acres; Parcel #44, consisting of 2.773 acres; Parcel #45, consisting of 2.739 acres; as shown on the plat of "GLADYS SMITH PROPERTY" as prepared by Smith Engineering and Land Surveys, Inc., Registered Land Surveyor #2373 with said plat recorded at Plat Cabinet A, Slide 321, in the Breckinridge County Clerk's Office, to which plat reference is hereby given for a more particular description of said property.

BEING a part of the same property conveyed to Gladys Marie Smith by deed from Robert William Smith dated December 7, 1944 and recorded in Deed Book 83, page 626, Breckinridge County Clerk's Office. Thereafter, Gladys M. Smith (a/k/a Gladys Marie Smith) died testate naming Charles Richard Smith and Paul Edward Smith as Co-Executors of her estate with power of sale; see Will Book 17, page 498, said clerk's office.

ALSO

A certain tract or parcel of land on the Mount Merino Cemetery Road near the intersection of said road with Kentucky Highway #79 in Breckinridge County, Kentucky, and being more particularly described as follows:

Being Parcel #46, consisting of 3.895 acres; Parcel #47, consisting of 3.073 acres; and Parcel #48, consisting of 3.020 acres; as shown on the plat of "GLADYS SMITH PROPERTY" as prepared by Smith Engineering and Land Surveys, Inc., Registered Land Surveyor #2373 with said plat recorded at Plat Cabinet A, Slide 321, in the Breckinridge County Clerk's Office, to which plat reference is hereby given for a more particular description of said property.

BEING a part of the same property conveyed to Gladys Marie Smith by deed from Robert William Smith dated December 7, 1944 and recorded in Deed Book 83, page 626, Breckinridge County Clerk's Office. Thereafter, Gladys M. Smith (a/k/a Gladys Marie Smith) died testate naming Charles Richard Smith and Paul Edward Smith as Co-Executors of her estate with Power of Sale; see Will Book 17, page 498, said clerk's office.

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 123-4

BEGINNING at a stake on the Northeast side of the Norton lane 300 feet from the North Right of Way of U.S. Highway 60 and on the North side of a 40 foot Proposed Street. Thence with the North Side of the Norton lane N 39° W 1500 feet, thence N 36° 30' W 1150 feet to a post corner to Norton, thence with Norton's line N 47° E 948 feet to a post corner to Norton, thence S 43° E 266 feet to a post, thence N 49° E 330 feet to a post near a pond Norton corner, thence with Norton's line N 42° 30' W 1515 feet to a stone, thence with Norton's line N 52° E 440 feet to a post, thence N 6° W 32 feet to a post corner to C.A. Van Lahr, thence with Van Lahr's line N 77° E 1273 feet to a post corner to Edwards, thence with Edward's line S 39° E 1660 feet to a stake corner to G. O. Haynes, thence with Hayne's line following the Power pole S 20° 15' W 1803 feet to a stake on the Northeast side of Hillview Drive, thence with Hillview Drive N 40° 30' W 225 feet to a stake, thence with the Housing Project line S 49° 25' 50" W 240 feet to a concrete marker, thence with the Housing Project line S 40° 30' E 1000.05 feet to a concrete marker on the North Side of the 40 foot proposed Street, thence with the proposed Street S 49° 25' W 940 feet to the beginning.

BEING the same property conveyed to Irvington K & K Enterprises, LLC by deed from Kevin L. Kasey and Leslie Kasey, his wife, and Kerry R. Kasey and Martha N. Kasey, his wife, dated January 2, 1996 and recorded in Deed Book 237, page 510, Breckinridge County Clerk's Office.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 111-37 and 111-39A (57.6 acres)

A certain tract or parcel of land lying and being in the Webster community of Breckinridge County, Ky., and being more particularly described as follows:
Being Lot No. 3 Aliene Kays Sub-Division as set forth on the plat of Aliene Kays Sub-Division, recorded in Plat Cabinet A, Slide 381 in the Breckinridge County Clerk's Office.

BEING the same property conveyed to Earl Roach and Shirley Roach by deed from Aliene Kays and Richard Leon Kays, dated June 17, 2000 and recorded in Deed Book 268, Page 036, Breckinridge County Clerk's Office.

Being a part of the same property conveyed to Aliene Kays and Richard Leon Kays, her husband, by deed dated July 18, 1992, from Martha Pollock and Elmer Pollock, her husband, recorded in Deed Book

213 at page 639 in the Breckinridge County Clerk's Office.

ALSO

Parcels 17 and 18 of the Martha Pollock Estate Farm, plat of record in Plat- Cabinet A, Slide 204, of record in the County Court Clerk of Breckinridge County.

BEING the same property conveyed to Earl Roach and Shirley Roach by deed from Sandra D. Albright et al, dated September 14, 1995 and recorded in Deed Book 235, Page 014, Breckinridge County Clerk's Office.

Being part of the same property conveyed to Jesse D. Pollock and Martha Pollock, his wife, by deed of record in Deed Book 92, at Page 261, in the Breckinridge County Court Clerk's Office. Jesse D. Pollock subsequently passed away and pursuant to joint survivorship provisions of said deed title vested in Martha Pollock. Martha Pollock subsequently passed away leaving the above real property to Sandra D. Albright, formerly Pollock, Marshall Pollock and Ellison E. Pollock pursuant to her Last Will and Testament as recorded in Will Book 14, at Page 659, in the Breckinridge County Court Clerk's Office.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 111-52A and 111-53A (96.251 acres)

BEING a 96.251 acre tract located on the easterly side of KY HWY. 333, Webster, Breckinridge County, Kentucky and further described as follows:

BEGINNING at a 5/8" rebar on the easterly side of KY HWY 333 corner to P. Dowell (DB 111, PG 450); thence with said P. Dowell S 88 deg. 21 min. 23 sec. E., 568.85' to a rebar, thence N 03 deg. 18 min. 40 sec. E, 255.96' to a 5/8" rebar in the line of J.D. Tobin, Jr. (DB 192, PG 182); thence with said J.D. Tobin, Jr. S 85 deg. 51 min. 20 sec. E., 1833.30' to a stone corner to J.D. Tobin, Jr. (DB 187, PG 257); thence with said J.D. Tobin, Jr. S 85 deg. 25 min. 42 sec. E., 1218.42' to a rebar, thence S 10 deg. 55 min. 27 sec. E., 542.26' to a stone corner to J.D. Tobin, Jr. (DB 196, PG 480); thence with said J.D. Tobin, Jr. S 23 deg. 10 min. 53 sec. W., 405.41' to a cedar corner to R. Shilts (DB 257, PG 151); thence leaving said J.D. Tobin, Jr. with said R. Shilts N 77 deg. 36 min. 01 sec. W., 531.77' to a 5/8" rebar; thence N 78 deg. 41 min. 57 sec. W., 551.71' to a 5/8" rebar, thence S 30 deg. 42 min. 05 sec. W., 470.79' to a 5/8" rebar, thence S 30 deg. 40 min. 52 sec. W, 109.36' to a 5/8" rebar; thence S 64 deg. 59 min. 21 sec. W., 49.78' to a 5/8" rebar; thence S 64 deg. 59 min. 42 sec. W., 591.05' to a tack in post corner to R. Shilts (DB 193, PG 143); thence with said R. Shilts S 65 deg. 02 min. 04 sec. W., 397.69' to a 5/8" rebar corner to S Wildes (DB 229, PG 586); thence leaving said R. Shilts with said S. Wildes N 26 deg. 07 min. 47 sec. W., 113.78' to a 5/8" rebar; thence N 76 deg. 09 min. 51 sec. W., 21.97' to a 5/8" rebar; thence N 73 deg. 38 min. 04 sec. W., 76.20' to a 5/8" rebar; thence S 59 deg. 39 min. 18 sec. W., 276.87' to a 5/8" rebar on the easterly side of said KY HWY. 333; thence with said KY HWY 333 N. 28 deg. 43 min. 06 sec. W., 1848.98' to the beginning and containing 96.251 acres (more or less) per physical survey by Timothy W. Smith, L. S., in November 1995.

BEING the same property conveyed to Willoughby-Basham Farm, LLC, a Kentucky limited liability company from Allison T. Willoughby by Deed dated April 23, 2018, and recorded in Deed Book 411 page 222, in the Office of the County Clerk of Breckinridge County, Kentucky.

BEING the same property conveyed to Allison T. Willoughby by Deed dated February 18, 2016, and recorded in Deed Book 392 page 556, in the Office of the County Clerk of Breckinridge County, Kentucky.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Legal Description of the Property

ALL THAT CERTAIN real estate lying and being situated in Breckinridge County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 112-14A (9.579 acres) Should read "122-14A"

A certain tract of land lying and being in the Irvington community of Breckinridge County, Ky., on the northwest side of the Monohan Road and being further described as follows;

Beginning at a 1/2" rebar (set) on the northwest side of the Monohan Road (15' from center), said rod being referenced S-57-24-24-W, 648 feet along said road from a steel post at the southeast corner of the Merino Cemetery at the northeast corner of the parent tract, thence leaving the road and severing the parent tract, N-33-16-33-W, 313.64 feet to a 1/2" rebar (set) in a fence line in the southeast line of Lee Butler (D. B. 86, P. 29), said rebar being referenced S-57-24-25-W, 648 feet from the southwest corner of the cemetery, Thence with the fence and the line of said Butler, S-57-24-25-W, 1331.09 feet to a 1/2" rebar (set) in a fence corner in the north line of James Bandy (D. B. 135, P. 212), thence with the fence and the line of said Bandy, S-33-30-49-E, 313.66 feet to a 1/2" rebar (set) on the west side of the Monohan Road (15' from center), thence with the northwest side of said road, N-57-24-24-E, 1329.78 feet to the beginning.

CONTAINING: 9.579 ACRES more or less based on a survey made by demons Land Surveying on the 28th of Oct., 1997. Kendall Clemons Ky, P.L.S. 2811.

BEING the same property conveyed to Ernest E. Lucas and Brenda F. Lucas, his wife, by deed from James O. Cundiff and Fannie Cundiff, his wife, dated the 21st day of November, 1997 and recorded in Deed Book 249, page 674, Breckinridge County Clerk's Office.

Real Property Tax Parcel No. 133A-1 (14.99 acres)

A certain tract or parcel of land on the Mount Merino Cemetery Road near the intersection of said road with Kentucky Highway #79 in Breckinridge County, Kentucky, and being more particularly described as follows:

Being Parcel #1, consisting of 1.656 acres; Parcel #39, consisting of 3.317 acres; Parcel #40, consisting of 1.228 acres; Parcel #41, consisting of 1.744 acres; as shown on the plat of "GLADYS SMITH PROPERTY" as prepared by Smith Engineering and Land Surveys, Inc., Registered Land Surveyor #2373 with said plat recorded at Plat Cabinet A, Slide 321, in the Breckinridge County Clerk's Office, to which plat reference is hereby given for a more particular description of said property.

BEING the same property conveyed to Thomas H. Frymire and Margaret R. Frymire, his wife, by deed from Charles Richard Smith and Paul Edward Smith as Co- Executors of her estate of Gladys M. Smith, deceased, dated January 19, 1999 and recorded in Deed Book 257, page 398, Breckinridge County Clerk's Office.

ALSO

A certain tract or parcel of land on the Mount Merino Cemetery Road near the intersection of said road with Kentucky Highway #79 in Breckinridge County, Kentucky, and being more particularly described as follows:

Being Parcel #4, consisting of 7.041 acres; as shown on the plat of "GLADYS SMITH PROPERTY" as prepared by Smith Engineering and Land Surveys, Inc., Registered Land Surveyor #2373 with said plat recorded at Plat Cabinet A, Slide 321, in the Breckinridge County Clerk's Office, to which plat reference is hereby given for a more particular description of said property.

BEING the same property conveyed to Tom Frymire and Margaret Frymire, his wife, by deed from Earl M. Davis and Nancy E. Davis, his wife, et al, dated June 2, 2000 and recorded in Deed Book 267, page 660, Breckinridge County Clerk's Office.

(In the event of any inaccuracies or insufficiencies in the above legal description, Lessee may modify this Exhibit A to correct such inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 080-00-00-025.01 and 080-00-00-025

A certain tract or parcel of land lying and being in Meade County, Kentucky, and near Irvington, and bounded and described as follows: Beginning at a stone on the Hardinsburg Road, and corner to W. A. Simmons, thence with the Road N. 35 E. 44 poles thence N. 50 1/2 E. 72-1/3 poles to a stone in said road and corner to Alonza Cowley, thence with his line S. 39-1/4 E. 193-1/5 poles to a stone corner to James Bandy, thence with his line S. 48 1/2 W. 51-1/6 poles to a stone, thence again with his line S 40 1/2 E. 28 poles to a stone also Bandy's corner, thence S. 48 W. 67 poles to a stone in S. C. Dowell's line and also corner to W. A. Simmons, thence with his line N. 44 1/4 W. 212-1/3 poles to the beginning, as per survey made J. B. Smith, Surveyor, on the 25th day of March, 1905.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 080-00-00-009 (22.26 acres)

Being Lot 1 of Bakers Division, as shown on plat of same of record in Plat Cabinet 6, Sheet 75, in the office of the Meade County Court Clerk.

BEING the same property described in Deed dated February 25, 2004, and recorded in Deed Book 482, Page 448 in the office aforesaid.

Real Property Tax Parcel No. 087-00-00-25.13 (11 acres)

Being Lot 13 of Livers Estates, as shown on plat of same of record in Plat Cabinet 6, Sheet 162, in the office of the Meade County Court Clerk.

BEING the same property described in Deed dated January 10, 2005, and recorded in Deed Book 494, Page 325 in the office aforesaid.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 087-00-00-024.05 (165 acres)

TRACT I:

Situated along the southeast side of Kentucky Highway 79 being about 3810' northeast of Kentucky Highway 428 and being a part of a 134 acre tract as conveyed by deed to Stephen Edgar Robbins in Deed Book 444, Page 159 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Beginning at a 5/8" iron pin found at the northwesterly most corner of Lot 7 of the Livers Estate (Plat Cabinet 6, Slide 162) and being in the southerly right-of-way of Kentucky Highway 79, thence with the line of said Lot 7 for the following 5 courses and distances S 39°12'56" E 222.43' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; S 40°49'19" E 54.50' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; S 41°31'58" E 127.26' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; S 40°26'47" E 156.21' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 52°11'02" E 5.08' to an iron pin set; Thence by new division through the grantor's lands S 42°31'38" E 294.96' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the corner of Richardson Holdings of Ky, LLC ALR Property Series 25.000 acre tract (D.B. 622, Pg. 330); Thence with the line of said 25.000 acre tract S 42°31'38" E 135.37' to a point; Thence continuing with the line of said 25.000 acre tract S 41°56'30" E 151.58' to a point; Thence still 11, 10, 9 and 8 N 52°11'02" E 1264.63' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the corner of Lot 8; Thence with the line of said Lot 8 for the following 4 courses and distance, N 40°33'18" W 155.00' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 41°28'11" W 127.31' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 40°50' 11" W 54.83' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 39°11'30" W 216.39' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 in the southerly right- of-way of Kentucky Highway 79; Thence with the southerly right-of-way of Kentucky Highway 79 N 33°01'11" E 20.95' to the beginning containing 20.00 acres of land more or less.

The above legal description is based on an actual field survey completed by Matthew D. Sibole, PLS 3869 on July 2, 2018.

All iron pins set are 5/8" diameter by 18" in length with green plastic cap stamped M. Sibole, PLS 3869.

All bearings listed herein are based on Kentucky Single Zone State Plane Coordinate System NAD83, (2011), Epoch 2010, NAVD88 Geoid 12B.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Properties Series, by deed dated July 13, 2018, of record in Deed Book 664, Page 401 in the office of the Meade County Court Clerk.

TRACT II:

BEING a 15.000 acre tract located east of KY Highway 428 and southeast of KY Highway 79, near the community of Haysville, Meade County, Kentucky, more particularly described as follows:

BEGINNING at a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to A. Flaherty (DB 325 PG 230) and T. Tobin (DB 631 PG 128); THENCE with T. Tobin S 53 deg. 14 min. 44 sec. W., 24.06' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE N 36 deg. 44 min. 44 sec. W., 472.49' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Richardson Holdings of KY LLC, ALR Property Series (DB 612 PG 173); THENCE leaving said T. Tobin with Richardson Holdings of KY LLC, ALR Property Series N 53 deg. 16 min. 01 sec. E., 1386.85' to a set 5/8" rebar; THENCE leaving said Richardson Holdings of KY LLC, ALR Property Series with a new line in S. Robbins (WB T, PG 8 and DB 444 PG 159 Parcel II) S 36 deg. 44 min. 44 sec: E., 468.99' to a set 5/8" rebar in the line of J. Butler (DB 172 PG 138 and DB 161 PG 258); THENCE with J. Butler S 52 deg. 58 min. 34 sec. W., 302.19' to a found oak stump corner to said A. Flaherty; THENCE with A. Flaherty S 53 deg. 09 min. 40 sec. W., passing a found 5/8" rebar with cap stamped T. W. Smith LS 2373 at 20.00', a total distance of 1060.61' to the POINT OF BEGINNING and CONTAINING 15.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during June, 2017, per Job No. 14-219D.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Property Series, by deed dated July 14, 2017, of record in Deed Book 651, Page 83, in the office of the Meade County Court Clerk.

TRACT III:

BEING a 20.000 acre tract located southeast of KY Highway 79 and northeast of KY Highway 428, near the community of Haysville, Meade County, Kentucky, more particularly described as follows:

BEGINNING at a found 5/8" rebar with cap stamped T. W. Smith LS 2373 in the line of N. T. Hardesty (DB 574 PG 056) corner Richardson Holdings of KY LLC ALR Property Series (DB 622 PG 330) and S. Robbins (WB T, PG 8 and DB 444 PG 156 Parcel II First Tract); THENCE with N. T. Hardesty S 37 deg. 58 min. 56 sec. E., 531.70' to a set 5/8" rebar; THENCE leaving said N. T. Hardesty with new lines in said S. Robbins S 52 deg. 09 min. 19 sec. W., 1356.18' to a set 5/8" rebar; THENCE N 63 deg. 04 min. 52 sec. W., 105.46' to a set 5/8" rebar; THENCE S 41 deg. 37 min. 24 sec. W., 192.26' to a set 5/8" rebar on the northerly margin of an existing 30' Right-of-way Easement; THENCE continuing with new lines in said Robbins and with the northerly margin of the existing 30' Right-of-way Easement the following chordal courses: N 82

deg. 40 min. 24 sec. W., 40.12'; THENCE N 71 deg. 51 min. 43 sec. W., 63.89'; THENCE N 57 deg. 00 min. 54 sec. W., 72.05'; THENCE N 45 deg. 57 min. 43 sec. W., 160.35'; THENCE N 42 deg. 52 min. 15 sec. W., 163.88' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to said Richardson Holdings of KY LLC ALR Property Series; THENCE with Richardson Holdings of KY LLC ALR Property Series N 52 deg. 09 min. 19 sec. E., 1713.57' to the POINT OF BEGINNING and CONTAINING 20.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during April, 2016, per Job No. 14-219C.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Property Series, by deed dated May 10, 2016, of record in Deed Book 634, Page 305, in the office of the Meade County Court Clerk.

TRACT IV:

BEING a 25.000 acre tract located southeast of KY Highway 79, approximately 3800' northeast of the intersection of KY Highway 428, near the community of Haysville, Meade County, Kentucky, more particularly described as follows:

BEGINNING at a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 1, Livers Estate (PC 6, SLD 162) (N. Hardesty, DB 574 PG 56 Parcel A) and N. Hardesty (DB 574 PG 56, Parcel B Tract 1) N 36 deg. 37 min. 14 sec. E., passing a set 5/8" rebar with cap stamped Witness T W Smith 2373 at 401.49', a total distance of 456.49' to a point in a gravel driveway corner to N Hardesty (DB 574 PG 56, Parcel B Tract 2); THENCE leaving said N. Hardesty with N. Hardesty (Tract 2) S 37 deg. 58 min. 56 sec. E., passing a set 5/8" rebar with cap stamped Witness T W Smith 2373 at 30.00', a total distance of 824.07' to a set 5/8" rebar; THENCE leaving said N. Hardesty with new lines in S. Robbins (WB T, PG 8 and DB 444 PG 156 Parcel II First Tract) S 52 deg. 09 min. 19 sec. W., 1713.57' to a set 5/8" rebar in the easterly margin of an existing 30' Right-of-way Easement; THENCE with the easterly margin of the existing 30' Right-of-way Easement and continuing with new lines in said S. Robbins the following chordal courses: N 42 deg. 52 min. 15 sec. W., 62.63'; THENCE N 41 deg. 56 min. 28 sec. W., 151.59'; THENCE N 42 deg. 31 min. 36 sec. W., 135.33' to a set 5/8" rebar; THENCE leaving said right-of-way easement and continuing with new lines in said S. Robbins N 52 deg. 09 min. 19 sec. E., 296.37' to a set 5/8" rebar; THENCE N 42 deg. 31 min. 36 sec. W., 294.94' to a set 5/8" rebar in the line of Lot 6 (CESD Rehabs LLC etal, DB 614 PG 25 and DB 614 PG 28); THENCE with Lot 6, N 52 deg. 08 min. 54 sec. E., 68.38' to a found 5/8" rebar corner to Lot 5 (M. Wheeler, DB 518 PG 99); THENCE with Lot 5, N 52 deg. 12 min. 55 sec. E., 191.83' to a found 5/8" rebar corner to Lot 4 (J. Bergman, DB 557 PG 334); THENCE with Lot 4, N 52 deg. 08 min. 34 sec. E., 192.04' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 3 (N. Hardesty, DB 574 PG 56 Parcel A); THENCE with Lot 3, N 52 deg. 09 min. 25 sec. E., 191.81' to a found 5/8" rebar corner to Lot 2 (N. Hardesty, DB 574 PG 56 Parcel A); THENCE with Lot 2, N 52 in length, with a yellow plastic cap stamped "T.W. Smith LS 2373" or "set magnail" is a set 1½" magnail with washer stamped "T.W. SMITH LS 2373". The basis of bearing stated herein is based on GPS North.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Property Series, by deed dated July 2, 2015, of record in Deed Book 622, Page 330, in the office of the Meade County Court Clerk.

TRACT V:

Being a newly created 25 acre parcel of land located near the town of Guston in Meade County Ky. and more particularly described as follows:

Beginning at an existing 5/8 inch rebar (M.L. Manion cap #3374), said point being along the northeasterly right-of-way of Ky. Hwy 428 and being the westerly property corner of J.D. Tobin, Jr. (Deed Book 242, page 254) and the southerly property corner of Alexander Richardson (Deed Book 566, page 569) both recorded at the Meade County Courthouse; Thence leaving said Tobin and with said right-of-way and said Richardson N 42 deg. 29 min. 29 sec. W, 532.67 ft. to an existing 5/8 inch rebar (M.L. Manion Cap #3374) and being the true point of beginning; Thence continuing with said right-of-way N 42 deg 29 min. 29 sec. W, 200 feet to a set 5/8 rebar (M.L Manion Cap #3374); Thence leaving said right-of- way with newly created property line severing the Stephen Robbins tract (Deed Book 444, Page 156) N 34 deg. 42 min. 43 sec. E, 2386.14 ft. to a set 5/8 inch rebar (M.L. Manion cap #3374); Thence with newly created property line S 40 deg. 54 min. 41 sec E, 797.39 feet to a set 5/8 inch rebar (M.L. Manion Cap #3374), said point being a northerly property corner of J.D. Tobin (Deed Book 242, Page 254); Thence with line of said Tobin S 49 deg. 13 min. 24 sec. W, 255.21 ft to an exist wood fence post, said point being a northwesterly property corner of J.D. Tobin, Jr. (Deed Book 242, Page 254) and a northeasterly corner of Alexander Richardson (Deed Book 566, Page 569); Thence leaving said Tobin and continuing with line of said Richardson N 40 deg. 59 min. 30 sec. W, 61.27 feet to an existing 5/8 inch rebar (M.L. Manion Cap #3374), said point being a northeasterly property corner of sid Richardson; thence with line of said Richardson S 47 deg 30 min 00 sec W, 2051.39 feet to the point of beginning and containing 25 acres of land.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Property Series, by deed dated September 9, 2014, of record in Deed Book 613, Page 13, in the office of the Meade County Court Clerk.

TRACT VI:

Being a newly created 25 acre parcel of land located near the town of Guston in Meade County Ky. and more particularly described as follows:

Beginning at a set 5/8 inch rebar (M. L. Manion cap #3374), along the northeasterly right-of-way of Ky. Hwy 428 and being the westerly property corner of J.D. Tobin Jr. located in deed book 242, page 254 and the southerly property corner of Stephen Robbins located in deed book 444, page 156 both recorded at the Meade County Courthouse; Thence leaving said Tobin and with said right-of-way and said Robbins N 42 deg. 29 min. 29 sec. W, 532.67 ft. to a set 5/8 inch rebar

(M. L. Manion Cap #3374); Thence leaving said right-of-way with newly created property line severing the Stephen Robbins tract located in deed book 444, page 156, N 47 deg. 30 min. 00 sec. E. 2051.39 ft. to a set 5/8 inch rebar (M. L. Manion cap #3374), said point being along the southwesterly property line of Stephen Robbins located in deed book 444, page 159; thence with said line of Stephen Robbins (deed book 444, page 159), S 40 deg. 59 min. 30 sec. E. 532.85 ft. to a set 5/8 inch rebar (M. L. Manion Cap #3374), said point being a westerly property corner of J.D. Tobin, Jr. (deed book 242 page 254) and the northeasterly corner of Stephen Robbins (Deed book 444, Page 156); Thence with line of said Tobin and said Robbins (deed book 444, page 156), S 47 deg. 30 min. 00 sec. W, 2037.45 ft. to the point-of- beginning and containing 25 acres of land per physical survey by Mark L. Manion on July 16, 2010 and being job number 10013.

The above described parcel is subject to any easements, restrictions, overlaps, mining rights or planning and zoning regulations either implied or on record.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Properties Series, by deed dated September 9, 2014, of record in Deed Book 613, Page 18, in the office of the Meade County Court Clerk.

TRACT VII:

BEING a 35.000 acre tract located southeast of KY Highway 79, approximately 3800' northeast of the intersection of KY Highway 428, 174.47', a total distance of 332.86' to a set 5/8" rebar; THENCE S 36 deg. 44 min. 01 sec. E., 813.15' to a set 5/8" rebar; THENCE S 53 deg. 15 min. 59 sec. W., 1787.15' to a set 5/8" rebar in the line of said J. D. Tobin Jr Estate; THENCE with J. D. Tobin Jr Estate N 36 deg. 44 min. 01 sec. W., 760.07' to the POINT OF BEGINNING and CONTAINING 35.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during September, 2014, per Job No. 14-219.

Unless stated otherwise, any monument referred to herein as a "5/8" rebar is a set 5/8" diameter steel concrete reinforcing rod, eighteen inches (18") in length, with a yellow plastic cap stamped "T.W. Smith LS 2373" or "set magnail" is a set 1½ " magnail with washer stamped "T.W. SMITH LS 2373". The basis of bearing stated herein is based on GPS North.

Being the same property conveyed to Richardson Holdings of KY, LLC, ALR Property Series, by deed dated September 25, 2014, of record in Deed Book 612, Page 173, in the office of the Meade County Court Clerk.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 079-00-00-025.01 (90.96 acres)

Being Lot 2 of Baker Division, as shown on plat of same of record in Plat Cabinet 6, Sheet 75, in the office of the Meade County Court Clerk.

Title derived by Bonnie Jean Baker, a single person by Deed dated 8/17/96 of record in Deed Book 388, page 433, in the office of the Meade County Court Clerk.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 079-00-00-026.11 (11.88 acres)

Being Lots # 8, 9, 11, 12, 13 & 14 of Valley View Estates, a Plat and Plan of said subdivision of record in Plat Book 4, Page 83, Office of the Meade County Clerk.

HOWEVER EXCEPTED OUT OF THE ABOVE IS A PARCEL OF LAND CONVEYED TO K-P INVESTMENTS, INC. BY DEED DATED OCTOBER 5, 1993 OF RECORD IN DEED BOOK 384, PAGE 120, MORE SPECIFICALLY DESCRIBED AS FOLLOWS:

Being Lot #10 of Valley View Estates and a portion of Lot #9 described as follows: Beginning at a post at southwest corner of Tract #9 and Southeast corner of tract 10, also being the northeast corner of C. Fackler and northwest corner of Ken Heavrin; thence N 46° 20' 37" 21 feet to point; thence S 83° E 21.6 feet to post in Ken Heavrin line; thence S 26° 07' 08" 12 feet to point of beginning. A plat and plan of said subdivision of record in Plat Book 4, page 83, Office of the Meade County Clerk.

BEING the same property described by Deed dated May 3, 2010, and recorded in Deed Book 562, Page 619 in the office aforesaid.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Legal Description of the Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 087-00-00-024.10 (25 acres) and 087-00-00-024.50 (28.81 acres)

TRACT 1:

BEGINNING at a post being the N.E. corner of Highway No. 79 and Highway No. 428; thence with highway No. 428 S. 41 E. 1053' to a post corner to Tobin; thence with his line N. 49 E. 2042' to a corner; thence N. 39 3/4 W., 1773' to Highway No. 79; thence with Highway No. 79 S. 30 1/4 W., 2188' to a post; thence S. 15 E., 24' to the beginning and containing 65.21 acres of land, more or less.

AND

TRACT 2:

PARCEL I: BEGINNING at a stone in the line of H. B. Livers corner to H. O. Robbins on the North side of the outlet; thence with the line of the Livers land, N 48 1/4 E 200' to a stone in the Livers line; thence S 47 E 140' to H. O. Robbins corner; thence with his line S 48 1/4 W 200' to the outlet. With the outlet N 47 W 140' to the beginning. By survey of W. D. Richardson, June 3, 1953.

PARCEL II: FIRST TRACT: BEGINNING at a stone corner to Chris Bewley's in H. B. Livers line; thence with Bewley's line S 42 1/2 E. 119 1/2 poles to a stake or stone in a pond at the N/E corner of the fence; thence S 31 1/4 W. 43 poles to a stone near a hickory corner to C. M. Anderson's; thence S. 48 - 22 W. 92 1/2 poles to a stone; thence N 41 1/4 W 41 6/10 poles to a stone; thence S 49 W 70 4/5 poles to a stone in Steve Mills line; thence N 41 W. 77 1/10 poles to a stone corner to said Steve Mills and H. B. Livers; thence N 48 E. 163 3/5 poles to a hickory; thence N 32 1/2 E. 41 poles to the beginning, containing 134 acres. TRACT 2: BEGINNING at a stone in the road at the corner of W. F. Roberts original tract of 134 acres, S. 40 1/2 E. 41 1/2 poles to a stone; thence N. 49 1/4 E. 10 poles to two black jacks Hubert Bandy's corner; thence with his line S. 40 1/2 E. 33 poles to a stone Adams heirs; thence S 49 3/4 W. 64 115 poles to the Livers Road; thence N 40 W. 74 poles to a stone corner of the Livers Lane and W. F. Roberts line; thence N. 49 3/4 E 53 1/2 poles to the beginning and containing 27 21/100 acres. TRACT 3: A certain parcel or tract of land lying and being in the county of Meade, State of Kentucky about one and one half miles N.W. of the town of Guston, Ky. bounded as follows: Beginning at a stone corner to Adams Heirs thence N 49 1/2 E. 82 poles to a stone with two black oak pointers in Arien Berry's line; thence with said Berry line N. 40 W. 34 poles to a stone said Berry's corner also corner to Raymond Alexanders line; thence with Alexanders line S 49 W 81 1/2 poles to two black oaks, Alexander corners; thence with another of Alexanders lines S 41 E. 33 poles to the

beginning and containing 17 6/10 acres of land. ALSO, INCLUDED is the pass-way conveyed to H. O. Robbins by Livers Heirs of record in the Deed Book 84, Page 293, office of the Meade County Court Clerk. THERE IS EXCEPTED and not included herein a lot of land conveyed to W. O. and Dorothy Robbins in Deed Book 85, Page 575, and small lots to J. D. Tobin and Ralph Johnson.

EXCEPTING FROM TRACT 1 AND 2, THE FOLLOWING NINE PARCELS:

Parcel 1:

Being a newly created 25 acre parcel of land located near the town of Guston in Meade County Ky, And more particularly described as follows: Beginning at a set 5/8 inch rebar (M. L. Manion cap #3374), said point being along the northeasterly right-of-way of Ky. Hwy. 428 and being the westerly property corner of J. D. Tobin, Jr. (Deed Book 242, Page 254) and the southerly property corner of Alexander Richardson (deed Book 566, Page 569) both recorded at the Meade County Courthouse; thence leaving said Tobin and with said right-of-way and said Richardson N 42 deg. 29 min. 29 sec. W, 532.67 ft. to an existing 5/8 inch rebar (M. L. Manion Cap #3374) and being the true point of beginning; thence continuing with said right-of-way N 42 deg. 29 min. 29 sec. W, 200 feet to a set 5/8 rebar (M. L. Manion Cap #3374); thence leaving said right-of-way with newly created property line severing the Stephen Robbins tract (Deed Book 444, Page 156) N 34 deg. 42 min. 43 sec. E, 2386.14 ft. to a set 5/8 inch rebar (M. L. Manion cap #3374); thence with newly created property line S 40 deg. 54 min. 41 sec. E, 797.39 feet to a set 5/8 inch rebar (M. L. Manion Cap #3374), said point being a northerly property corner of J. D. Tobin (Deed Book 242, Page 254); thence with line of said Tobin S 49 deg. 13 min. 24 sec. W, 255.21 ft. to an exist wood fence post, said point being a northwesterly property corner of J. D. Tobin, Jr. (Deed Book 242, Page 254) and a northeasterly corner of Alexander Richardson (Deed Book 566, Page 569); thence leaving said Tobin and continuing with line of said Richardson N 40 deg. 59 min. 30 sec. W, 61.27 feet to an existing 5/8 inch rebar (M. L. Manion Cap #3374), said point being a northeasterly property corner of said Richardson; thence with line of said Richardson S 47 deg. 30 min. 00 sec. W, 2051.39 ft. to the point-of-beginning and containing 25 acres of land per physical survey by Mark L. Manion on Nov 16, 2011 and being job number 11086.

Parcel 2:

Being a newly created 25 acre parcel of land located near the town of Guston in Meade County Ky. And more particularly described as follows: Beginning at a set 5/8 inch rebar (M. L. Manion cap #3374), along the northeasterly right-of-way of Ky. Hwy. 428 and being the westerly property corner of J. D. Tobin Jr. located in Deed Book 242, Page 254 and the southerly property corner of Stephen Robbins located in deed Book 444, Page 156 both recorded at the Meade County Courthouse; thence leaving said Tobin and with said right-of-way and said Robbins N 42 deg. 29 min. 29 sec. W 532.67 ft. to a set 5/8 inch rebar (M. L. Manion Cap #3374); thence leaving said right-of-way with newly created property line severing the Stephen Robbins tract located in Deed Book 444, Page 156, N 47 deg. 30 min. 00 sec. E 2051.39 ft. to a set 5/8 inch rebar (M. L. Manion cap #3374), said point being along the southwesterly property line of Stephen Robbins located in Deed Book 444, Page 159; thence with said line of Stephen Robbins

(Deed Book 444, Page 159), S 40 deg. 59 min. 30 sec E 532.85 ft. to a set 5/8 inch rebar (M. L. Manion Cap #3374), said point being a westerly property corner of J. D. Tobin, Jr. (Deed Book 242 Page 254) and the northeasterly corner of Stephen Robbins (Deed Book 444, Page 156); thence with line of said Tobin and said Robbins (Deed Book 444, Page 156), S 47 deg. 30 min. 00 sec. W, 2037.45 ft. to the point-of-beginning and containing 25 acres of land per physical survey by Mark L. Manion on July 16, 2010 and being job number 10013.

Parcel 3:

BEING a 35.00 acre tract located southeast of KY Highway 79, approximately 3800' northeast of the intersection of KY Highway 428, near the community of Haysville, Meade County, Kentucky, more particularly described as follows: BEGINNING at a found 5/8" rebar with cap stamped M. L. Manion #3374 corner to J. D. Tobin Jr Estate (DB 242 PG 254) also being the southeast corner of A. Richardson (DB 581 PG 507) corner to S. Robbins (WB T, PG 8 and DB 444 PG 159); THENCE with A. Richardson N 36 deg. 47 min. 57 sec. W., 30.00' to a set 5/8" rebar; THENCE leaving said A. Richardson with new lines in said S. Robbins N 47 deg. 40 min. 18 sec. E., 1466.89' to a set 5/8" rebar; THENCE S 33 deg. 57 min. 41 sec. E. 113.92' to a set 5/8" rebar; THENCE N 54 deg. 19 min. 27 sec. E., passing a point at the end of the centerline of a 30' Right-of-way Easement at 174.47', a total distance of 332.86' to a set 5/8" rebar; THENCE S 36 deg. 44 min. 01 sec. E., 813.15' to a set 5/8" rebar; THENCE S 53 deg. 15 min. 59 sec. W. 1787.15' to a set 5/8" rebar in the line of said J. D. Tobin Jr. Estate; THENCE with J. D. Tobin Jr Estate N 36 deg. 44 min. 01 sec. W., 760.07' to the POINT OF BEGINNING and CONTAINING 35.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during September, 2014, per Job No. 14-219. Being part of the same property conveyed to Stephen Edgar Robbins, married, by a Deed of Correction recorded April 9, 2009, and also by deed dated December 31, 1999, recorded in Deed Book 440, Page 308, both in the office of the Meade County Court Clerk.

Parcel 4:

BEING a 15.000 acre tract located east of KY Highway 428 and southeast of KY Highway 79, near the community of Haysville, Meade County, Kentucky, more particularly described as follows: BEGINNING at a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to A. Flaherty (DB 325 PG 230) and T. Tobin (DB 631 PG 128); THENCE with T. Tobin S 53 deg. 14 min. 44 sec. W., 24.06' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE N 36 deg. 44 min. 44 sec. W., 472.49' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Richardson Holdings of KY LLC, ALR Property Series (DB 612 PG 173); THENCE leaving said T. Tobin with Richardson Holdings of KY LLC, ALR Property Series N 53 deg. 16 min. 01 sec. E., 1386.85' to a set 5/8" rebar; THENCE leaving said Richardson Holdings of KY LLC, ALR Property Series with a new line in S. Robbins (WB T, PG 8 and DB 444 PG 159 Parcel II) S 36 deg. 44 min. 44 sec. E., 468.99' to a set 5/8" rebar in the line of J. Butler (DB 172 PG 138 and DB 161 PG 258); THENCE with J. Butler S 52 deg. 58 min. 34 sec. W., 302.19' to a found oak stump corner to said A. Flaherty; THENCE with A. Flaherty S 53 deg. 09 min. 40 sec. W., passing a found 5/8" rebar with cap stamped T. W. Smith LS 2373 at 20.00', a total distance of 1060.61' to the POINT OF BEGINNING and CONTAINING 15.000

acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during June, 2017, per Job No. 14-219D.

Parcel 5:

BEING a 25.000 acre tract located southeast of KY Highway 79, approximately 3800' northeast of the intersection of KY Highway 428, near the community of Haysville, Meade County, Kentucky, more particularly described as follows: BEGINNING at a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 1, Livers Estate (PC 6, SLD 162) (N. Hardesty, DB 574 PG 56 Parcel A) and N. Hardesty (DB 574 PG 56, Parcel B Tract I) N 36 deg. 37 min. 14 sec. E., passing a set 5/8" rebar with cap stamped Witness T W Smith 2373 at 401.49', a total distance of 456.49' to a point in a gravel driveway corner to N Hardesty (DB 574 PG 56, Parcel B Tract 2); THENCE leaving said N. Hardesty with N. Hardesty (Tract 2) S 37 deg. 58 min. 56 sec. E., passing a set 5/8" rebar with cap stamped Witness T W Smith 2373 at 30.00', a total distance of 824.07' to a set 5/8" rebar; THENCE leaving said N. Hardesty with new lines in S. Robbins (WB T, PG 8 and DB 444 PG 156 Parcel II First Tract) S 52 deg. 09 min. 19 sec. W., 1713.57' to a set 5/8" rebar in the easterly margin of an existing 30' Right-of-way Easement; THENCE with the easterly margin of the existing 30' Right-of-way Easement and continuing with new lines in said S. Robbins the following chordal courses: N 42 deg. 52 min. 15 sec. W., 62.63'; THENCE N 41 deg. 56 min. 28 sec. W., 151.59'; THENCE N 42 deg. 31 min. 36 sec. W., 135.33' to a set 5/8" rebar; THENCE leaving said right-of-way easement and continuing with new lines in said S. Robbins N 52 deg. 09 min. 19 sec. E., 296.37' to a set 5/8" rebar; THENCE N 42 dg. 31 min. 36 sec. W., 294.94' to a set 5/8" rebar in the line of Lot 6 (CESD Rehabs LLC etal, DB 614 PG 25 and DB 614 PG 28); THENCE with Lot 6, N 52 deg. 08 min. 54 sec. E., 68.38' to a found 5/8" rebar corner to Lot 5 (M. Wheeler, DB 518 PG 99); THENCE with Lot 5, N 52 deg. 12 min. 55 sec. E., 191.83' to a found 5/8" rebar corner to Lot 4 (J. Bergman, DB 557 PG 334); THENCE with Lot 4, N 52 deg. 08 min. 34 sec. E. 192.04' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 3 (N. Hardesty, DB 574 PG 56 Parcel A); THENCE with Lot 3, N 52 deg. 09 min. 25 sec. E., 191.81' to a found 5/8" rebar corner to Lot 2 (N. Hardesty, DB 574 PG 56 Parcel A); THENCE with Lot 2, N 52 deg. 04 min. 44 sec. E., 165.01' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to said Lot 1: THENCE with Lot 1, N 36 deg. 55 min. 04 sec. E., 225.72' to the POINT OF BEGINNING and CONTAINING 25.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during June, 2015, per Job No. 14-219.

Parcel 6:

BEING a 20.000 acre tract located southeast of KY Highway 79 and northeast of KY Highway 428, near the community of Haysville, Meade County, Kentucky, more particularly described as follows:

BEGINNING at a found 5/8" rebar with cap stamped T. W. Smith LS 2373 in the line of N. T. Hardesty (DB 574 PG 056) corner Richardson Holdings of KY LLC ALR Property Series (DB 622 PG 330) and S. Robbins (WB T, PG 8 and DB 444 PG 156 Parcel II First Tract); THENCE with N. T. Hardesty S 37 deg. 58 min. 56 sec. E., 531.70' to a set 5/8" rebar; THENCE leaving said N. T. Hardesty with new lines in said S. Robbins S 52 deg. 09 min. 19 sec. W., 1356.18' to a set 5/8" rebar; THENCE N 63 deg. 04 min. 52 sec. W., 105.46' to a set 5/8" rebar; THENCE S

41 deg. 37 min. 24 sec. W., 192.26' to a set 5/8" rebar on the northerly margin of an existing 30' Right-of-way Easement; THENCE continuing with new lines in said Robbins and with the northerly margin of the existing 30' Right-of-way Easement the following chordal courses: N 82 deg. 40 min. 24 sec. W., 40.12'; THENCE N 71 deg. 51 min. 43 sec. W., 63.89'; THENCE N 57 deg. 00 min. 54 sec. W., 72.05'; THENCE N 45 deg. 57 min. 43 sec. W., 160.35'; THENCE N 42 deg. 52 min. 15 sec. W., 163.88' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to said Richardson Holdings of KY LLC ALR Property Series; THENCE with Richardson Holdings of KY LLC ALR Property Series N 52 deg. 09 min. 19 sec. E., 1713.57' to the POINT OF BEGINNING and CONTAINING 20.000 acres (more or less) according to a physical survey by Timothy W. Smith, PLS #2373 during April, 2016, per Job No. 14-219C.

Parcel 7:

Situated along the southeast side of Kentucky Highway 79 being about 3810' northeast of Kentucky Highway 428 and being a part of a 134 acre tract as conveyed by deed to Stephen Edgar Robbins in Deed Book 444, Page 159 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Beginning at a 5/8" iron pin found at the northwesterly most corner of Lot 7 of the Livers Estate (Plat Cabinet 6, Slide 162) and being in the southerly right-of-way of Kentucky Highway 79, thence with the line of said Lot 7 for the following 5 courses and distances S 39°12'56" E 222.43' to a 5/8" iron pin and cup found stamped T.W. Smith 2373, thence; S 40°49'19" E 54.50' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; S 41°31'58" E 127.26' to a 5/8" iron pin and cap found stamped T.W. Smith 23731; thence; S 40°26'47" E 156.21' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 52°11'02" E 5.08' to an iron pin set; Thence by new division through the grantor's lands S 42°31'38" E 294.96' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the corner of Richardson Holdings of Ky, LLC ALR Property Series 25.00 acre tract (D.B. 622, Pg. 330); Thence with the line of said 25.000 acre tract S 42°31'38" E 135.37' to a point; Thence continuing with the line of said 25.000 acre tract S 41°56'30" E 151.581 to a point; Thence still continuing with the line of said 25.000 acre tract S 42°52'17" E 62.70' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the corner of Richard Holdings of Ky, LLC ALR Property Series 20,000 acre tract (D.B. 634, Pg. 305); Thence by new division line through the grantor's lands S 52°09'39" W 1379.02' to an iron pin set in the line of Alexander L. Richardson's 25 acre tract (D.B. 581, Pg. 507), a 5/8" iron pin and cap found stamped T.W. Smith 2373 bears S 36°46'59" E 602.38'; Thence with the line of said Richardson's 25 acre tract N 36°46'59" W 165.14 to a 5/8" iron pin and cap found stamped Manion 3374; Thence by new division line through the grantor's lands N 33°40'10" W 479.26' to an iron pin set in the line of Lot 12 of said Livers Estates (Plat Cabinet 6, Slide 162); Thence with the line of said Lot 12 and becoming the line of Lots 11, 10, 9 and 8 N 52°11'02" E 1264.63' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the corner of Lot 8; Thence with the line of said Lot 8 for the following 4 courses and distances, N 40°33'18" W 155.00' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 41°28'11" W 127.31' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence N 40°50'11" W 54.83' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 39°11'30" W 216.39' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 in the southerly right-of-way of Kentucky Highway 79;

Thence with the southerly right-of-way of Kentucky Highway 79 N 33°01'11" E 20.95' to the beginning containing 20.00 acres of land more or less.

Parcel 8

Parcel I

Situated along the southerly side of ingress / egress and utility easement being east of Kentucky Highway 79 and being a part of a 134 acre tract as conveyed by deed to Stephen Edgar Robbins in Deed Book 444, Page 15 9 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Beginning at a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the northeasterly most corner of Alexander Richardson's 20.000 acre tract (Tract I),(D. B. 667, Pg. 71) and being the southwesterly most corner of Alexander L. Richardson's 20.000 acre tract (Tract 3), (D. B. 667, Pg. 71) having a Kentucky Single Zone State Plane Coordinate of N 3,857,613.3060 E 4,777,474.5230, thence with the southerly line of said Alexander L. Richardson's 20.000 acre tract (Tract 3) and the northerly line of said Ingress / Egress and utility easement for the following 5 courses and distances, S 42°51 '49" E 16 3.88' to a point, thence; S 45°57' 17" E 160.35' to a point, thence; S 57°00'28" E 72.05' to a point, thence; S 71° 51' 17" E 63.89' to a point, thence ; S 82°39' 58" E 40.12' to a 5/8" iron pin and cap found stamped T.W. Smith 2373; Thence by new division line through the grantor's lands S 35°02'43" W 54.61' to a 5/8" iron pin and cap found stamped T. W. Smith 2373 at the corner of Alexander L. Richardson's 35.000 acre tract (Tract 7)(O.B. 667, Pg. 71) ; Thence with the line of said Richardson's 35.000 acre tract S 47°40' 26" W 1467.02' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 in the line of Alexander L. Richardson's 25 acre tract (Tract 5) (D. B. 667, Pg. 71) ; Thence with the line of said Richardson's 25 acre tract N 36°47' 05" W 602.35' to ½" iron pin and cap found stamped M. Sibole, PLS 3869 at the southeasterly most corner of said Richardson's Tract I ; Thence with the line of said Richardson 's Tract 1 N 52°09' 30" E 1378.96' to the beginning containing 17.808 acres of land more or less .

The above legal description is based on an actual field survey completed by Matthew D. Sibole, PLS 3869 on June 12, 2019.

All iron pins set are ½" diameter by 1/8 " in length with green plastic cap stamped M. Sibole, PLS 3869.

Parcel 9

Parcel II

Situated along the southerly side of ingress/egress and utility easement being east of Kentucky Highway 79 and being a part of a 134 acre tract as conveyed by deed to Stephen Edgar Robbins in Deed Book 444, Page 159 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Commencing for reference at a 5/8" iron pin and cap found stamped T. W. Smith 2373 at the northeasterly most corner of Alexander Richardson's 20.000 acre tract (Tract I),(D. B. 667 , Pg. 71) and being the southwesterly most corner of Alexander L. Richardson's 20.000 acre tract (Tract 3),(D. B. 667, Pg. 71) having a Kentucky Single Zone State Plane Coordinate of N

3,857,613.3060 E 4,777,474.5230, thence with the southerly line of said Alexander L. Richardson's 20.000 acre tract (Tract 3) and the northerly line of said Ingress/Egress and utility easement for the following 5 courses and distances, S 42°51' 49" E 163.88' to a point, thence; S 45°57' 17" E 160.35' to a point, thence; S 57°00' 28" E 72.05' to a point, thence S 71° 51' 17" E 63.89' to a point, thence S 82°39' 58" E 40.12' to a 5/8" iron pin and cap found stamped T. W Smith 2373; Thence continuing with the line of said Richardson's 20.000 acre tract (Tract 3) for the following 3 courses and distances N 41° 36' 57" E 192.33' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; S 63°05' 38" E 105.51' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; N 52°09' 29" E 70.89' to an iron pin set marking the True Point of Beginning for this tract herein described; Thence continuing with the line of said Richardson's 20.000 acre tract (Tract 3) N 52°09'29" E 1285.28' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 in the line of Nicholas T. & Bethany M. Hardesty (D. B. 574, Pg. 56); Thence with the line of said Hardesty S 38° 10'04" E 74.24' to an iron pin set; Thence by new division line through the grantor's lands S 52°09' 29" W 1287.15' to an iron pin set; Thence N 36°43' 37" W 74.25' to the beginning containing 2.192 acres of land more or less.

The above legal description is based on an actual field survey completed by Matthew D. Sibole, PLS 3869 on June 12, 2019.

All iron pins set are 1/2" diameter by 18" in length with green plastic cap stamped M. Sibole , PLS 3869.

Both Parcel I and Parcel II are part of the 134 acre tract conveyed to Stephen Edgar Robbins, married, by a Deed of Correction recorded April 9 , 2009, of record in Deed Book 444, Page 159, and also by deed dated December 31 , 1999 , recorded in Deed Book 440, Page 308, in the office of the Meade County Court Clerk.

(In the event of any inaccuracies or insufficiencies in the above legal description, Lessee may modify this Exhibit A to correct such inaccuracies or insufficiencies)

EXHIBIT A

Legal Description of the Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 087-00-00-024.15 (20 acres)

Parcel I

Situated along the southerly side of ingress/egress and utility easement being east of Kentucky Highway 79 and being a part of a 134 acre tract as conveyed by deed to Stephen Edgar Robbins in Deed Book 444, Page 159 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Beginning at a 5/8" iron pin and cap found stamped T.W. Smith 2373 at the northeasterly most corner of Alexander Richardson's 20.000 acre tract (Tract 1), (D. B. 667, Pg. 71) and being the southwesterly most corner of Alexander L. Richardson's 20.000 acre tract (Tract 3), (D. B. 667, Pg. 71) having a Kentucky Single Zone State Plane Coordinate of N 3,857,613.3060 E 4,777,474.5230, thence with the southerly line of said Alexander L. Richardson's 20.000 acre tract (Tract 3) and the northerly line of said Ingress/Egress and utility easement for the following 5 courses and distances, S 42°51' 49" E 16 3.88' to a point, thence; S 45°57' 17" E 160.35' to a point, thence; S 57°00'28" E 72.05' to a point, thence; S 71° 51' 17" E 63.89' to a point, thence; S 82°39' 58" E 40.12' to a 5/8" iron pin and cap found stamped T.W. Smith 2373; Thence by new division line through the grantor's lands S 35°02'43" W 54.61' to a 5/8" iron pin and cap found stamped T. W. Smith 2373 at the corner of Alexander L. Richardson's 35.000 acre tract (Tract 7) (D.B. 667, Pg. 71); Thence with the line of said Richardson's 35.000 acre tract S 47°40' 26" W 1467.02' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 in the line of Alexander L. Richardson's 25 acre tract (Tract 5) (D. B. 667, Pg. 71); Thence with the line of said Richardson's 25 acre tract N 36°47' 05" W 602.35' to ½" iron pin and cap found stamped M. Sibole, PLS 3869 at the southeasterly most corner of said Richardson's Tract 1; Thence with the line of said Richardson's Tract 1 N 52°09' 30" E 1378.96' to the beginning containing 17.808 acres of land more or less .

The above legal description is based on an actual field survey completed by Matthew D. Sibole, PLS 3869 on June 12, 2019.

All iron pins set are ½" diameter by 1/8 " in length with green plastic cap stamped M. Sibole, PLS 3869.

Parcel II

Situated along the southerly side of ingress/egress and utility easement being east of Kentucky Highway 79 and being a part of a 134 acre tract as conveyed by deed to Stephen Edgar Robbins in Deed Book 444, Page 159 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Commencing for reference at a 5/8" iron pin and cap found stamped T. W. Smith 2373 at the northeasterly most corner of Alexander Richardson's 20.000 acre tract (Tract 1), (D. B. 667, Pg. 71) and being the southwesterly most corner of Alexander L. Richardson's 20.000 acre tract (Tract

3),(D. B. 667, Pg. 71) having a Kentucky Single Zone State Plane Coordinate of N 3,857,613.3060 E 4,777,474.5230, thence with the southerly line of said Alexander L. Richardson's 20.000 acre tract (Tract 3) and the northerly line of said Ingress / Egress and utility easement for the following 5 courses and distances, S 42°51' 49" E 163.88' to a point, thence; S 45°57' 17" E 160.35' to a point, thence; S 57°00' 28" E 72.05' to a point, thence S 71° 51' 17" E 63.89' to a point, thence S 82°39' 58" E 40.12' to a 5/8" iron pin and cap found stamped T. W. Smith 2373; Thence continuing with the line of said Richardson's 20.000 acre tract (Tract 3) for the following 3 courses and distances N 41° 36' 57" E 192.33' to a 5/8" iron pin and cap found stamped T.W. Smith 2373, thence; S 63°05' 38" E 10 5.51' to a 5/8" iron pin and cap found stamped T. W. Smith 2373, thence; N 52°09' 29" E 70.89' to an iron pin set marking the True Point of Beginning for this tract herein described; Thence continuing with the line of said Richardson's 20.000 acre tract (Tract 3) N 52°09'29" E 1285.28' to a 5/8" iron pin and cap found stamped T.W. Smith 2373 in the line of Nicholas T. & Bethany M. Hardesty (D. B. 574, Pg. 56); Thence with the line of said Hardesty S 38° 10' 04" E 74.24' to an iron pin set; Thence by new division line through the grantor's lands S 52°09' 29" W 1287.15' to an iron pin set; Thence N 36°43' 37" W 74.25' to the beginning containing 2.192 acres of land more or less.

The above legal description is based on an actual field survey completed by Matthew D. Sibole, PLS 3869 on June 12, 2019.

All iron pins set are ½" diameter by 18" in length with green plastic cap stamped M. Sibole, PLS 3869.

Both Parcel I and Parcel II are part of the 134 acre tract conveyed to Stephen Edgar Robbins, married, by a Deed of Correction recorded April 9 , 2009, of record in Deed Book 444, Page 1 59, and also by deed dated December 31, 1999 , recorded in Deed Book 440, Page 308, in the office of the Meade County Court Clerk.

(In the event of any inaccuracies or insufficiencies in the above legal description, Lessee may modify this Exhibit A to correct such inaccuracies or insufficiencies)

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EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 086-00-00-014

BEING a 213.214 acre tract located on the southerly side of KY Highway 1239 (Midway Road) and south of the intersection of Sirocco Road, approximately 0.17 mile west of KY Highway 79, and west of the community of Midway, Meade County, Kentucky, more particularly described as follows:

BEGINNING at a set 5/8" rebar on the southerly right-of-way of KY Highway 1239 corner to W. Lucas (DB 238 PG 44); THENCE with the southerly right-of-way of KY Highway 1239 the following chordal courses: S 85 deg. 51 min. 05 sec. E., 90.46'; THENCE S 83 deg. 19 min. 47 sec. E., 122.02'; THENCE S 82 deg. 15 min. 27 sec. E., 245.73'; THENCE S 82 deg. 15 min. 15 sec. E., 118.25'; THENCE S 80 deg. 19 min. 15 sec. E., 109.01'; THENCE S 77 deg. 26 min. 58 sec. E., 191.3 7' to a set 5/8" rebar corner to Allen Revocable Living Trust (DB 497 PG 554 and DB 119 PG 197); THENCE leaving KY Highway 1239 with Allen Revocable Living Trust S 14 deg. 10 min. 00 sec. W., 418.00' to a set 5/8" rebar; THENCE S 76 deg. 00 min. 33 sec. E., 208.70' to a found 3/4" pipe corner to R. Bertrand Jr. (DB 314 PG 85); THENCE with R. Bertrand Jr. S 76 deg. 04 min. 42 sec. E., 208.68' to a found 3/4" round bar in concrete corner to L. Leasor (DB 452 PG 327); THENCE with L. Leasor S 76 deg. 00 min. 20 sec. E., 150.69' to a found broken T-post corner to J. Diehl (DB 297 PG 75); THENCE with J. Diehl S 75 deg. 56 min. 43 sec. E., 216.91' to a found 1/2" rebar in concrete in the centerline of an old road bed corner to J. Diehl (DB 338 PG 177) and in the line of J. Miles (DB 109 PG 155); THENCE with J. Miles and the meanders of the centerline of the old Brandenburg-Hardinsburg Road the following courses: S 33 deg. 18 min. 24 sec. W., 198.32' to a set 5/8" rebar; THENCE S 34 deg. 17 min. 34 sec. W., 228.75' to a set 5/8" rebar; THENCE S 33 deg. 02 min. 57 sec. W., 203.49' to a set 5/8" rebar; THENCE S 35 deg. 54 min. 55 sec. W., 92.01' to a set 5/8" rebar; THENCE S 17 deg. 36 min. 01 sec. W., 96.82' to a set 5/8" rebar; THENCE S 07 deg. 42 min. 52 sec. W., 151.15' to a set 5/8" rebar; THENCE S 10 deg. 44 min. 45 sec. W., 102.25' to a set 5/8" rebar; THENCE S 08 deg. 17 min. 50 sec. W., 320.79' to a set 5/8" rebar; THENCE S 05 deg. 29 min. 28 sec. W., 83.74' to a set 5/8" rebar; THENCE S 08 deg. 32 min. 34 sec. W., 246.69' to a set 5/8" rebar; THENCE S 06 deg. 48 min. 58 sec. W., 291.24' to a set 5/8" rebar; THENCE S 13 deg. 01 min. 36 sec. W., 311.88' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 17 Gobblers Knob (PC 4 SLD 180) (K. Blevins, DB 442 PG 438); THENCE leaving said centerline of old road and said J. Miles with Lot 17, N 77 deg. 29 min. 04 sec. W., 391.60' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Kentucky Land Holdings of Radcliff LLC (DB 557 PG 205); THENCE with Kentucky Land Holdings of Radcliff LLC N 28 deg. 20 min. 25 sec. E., 283.45' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE N 79 deg. 30 min. 59 sec. W., 169.79' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE S 25 deg. 23 min. 53 sec. W. 277.28' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 in the line of Lot 16 (Kentucky Land Holdings of Radcliff LLC, DB 557 PG 205); THENCE with Lot 16, N 79 deg. 47 min. 58 sec. W., 96.38' to a found 5/9" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 15 Gobblers Knob (PC 3 SLD 157) (N. Allen, DB 497 PG 417); THENCE with Lot 15, N. 79 deg. 41 min. 28 sec. W., 205.74' to a found 5/8" rebar in the Easterly margin of Gobblers Knob Road; THENCE with the easterly margin of Gobblers Knob Road N 11 deg. 59 min. 18 sec. E., 88.39' to a set 5/8" rebar; THENCE N 51 deg. 31 min. 19 sec. W., 67.43' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 14 Gobblers Knob (PC 4 SLD 180) (C. Jones, DB 574 PG 325); THENCE with Lot

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14, N 51 deg. 12 min. 16 sec. W., 130.61' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to Lot 29 (W. Jones, DB 572 PG 368); THENCE N 51 deg. 19 min. 32 sec. W., 130.47' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373; THENCE S 44 deg. 42 min. 34 sec. W., 299.96' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 in the northerly margin of Dogwood Lane; THENCE with Dogwood Lane N 53 deg. 50 min. 14 sec. W., 21.98' to a set 5/8" rebar; THENCE S 42 deg. 31 min. 48 sec. W., 60.22' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to lot 30 (M. Cornett, DB 472 PG 430); THENCE with Lot 30, S 42 deg. 30 min. 53 sec. W., 676.00' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to C. Hardin (DB 98 PG 351); THENCE with C. Hardin N. 20 deg. 31 min. 39 sec. W., 218.99' to a found stone; THENCE N 38 deg. 35 min. 53 sec. W., 1887.57' to a found stone; THENCE S 51 deg. 44 min. 10 sec. W., 648.95' to a set 5/8" rebar corner to S. Zanone (DB 116 PG 403 Tract I); THENCE leaving said C. Hardin with S. Zanone N 24 deg. 02 min. 39 sec. W., 1309.80' to a set 5/8" rebar corner to H. L. Richardson (DB 254 PG 141 Tract I); THENCE leaving said S. Zanone with H. L. Richardson N 52 deg. 22 min. 06 sec. E., 991.43' to a found 5/8" rebar with cap stamped T. W. Smith LS 2373 corner to S. Waters (DB 575 PG 40); THENCE with S. Waters N 52 deg. 11 min. 29 sec. E., 608.39' to a set 5/8" rebar corner to S. Richardson (DB 574 PG 242); THENCE leaving said S. Waters with S. Richardson S. 64 deg. 27 min. 31 sec. E., 256.72' to a found 5/8" pipe corner to F. Humphrey, et al (DB 526 PG 44 and DB 132 PG 219); THENCE with F. Humphrey, et al S 64 deg. 28 min. 30 sec. E., 149.71' to a found T-post corner to H. Jupin (DB 575 P 134); THENCE with H. Jupin S 64 deg. 17 min. 34 sec. E., 150.11' to a found nail at the base of a bent 1/2' pipe corner to L. Roth (DB 345 PG 224); THENCE with L. Roth S 64 deg. 31 min. 57 sec. E., 225.00' to a found 1" flat iron bar corner to J. Mattingly (DB 436 PG 110); THENCE with J. Mattingly S 64 deg. 24 min. 36 sec. E., 150.64' to a found 1" iron stake corner to S. Patterson (DB 526 PG 87); THENCE with S. Patterson S 64 deg. 32 min. 47 sec. E., 150.12' to a found 1" iron stake; THENCE N 25 deg. 39 min. 17 sec. E., 261.48' to a found 1/2" rebar with cap stamped G. S. Turner PLS 2153 on said southerly right-of-way of KY highway 1239; THENCE with highway S 86 deg. 34 min. 51 sec. E., 84.71' to a found 1" iron stake corner to H. Haynes (DB 112 PG 183); THENCE leaving said highway S 25 deg. 38 min. 22 sec. W., 294.33' to a found 1" iron stake; THENCE S 64 deg. 25 min. 18 sec. E., 369.99' to a found broken T-post; THENCE S 87 deg. 51 min. 28 sec. E., 197.39' to a found 1" pipe corner to M. Watts (DB 184 PG 74); THENCE with M. Watts S 87 deg. 44 min. 13 sec. E., 149.80' to a found 5/8" rebar corner to said W. Lucas; THENCE with W. Lucas S 87 deg. 44 min. 12 sec. E., 191.70' to a set 5/8" rebar; THENCE N 06 deg. 45 min. 15 sec. E., 419.30' to the POINT OF BEGINNING and CONTAINING 213.214 acres (more or less) according To PHYSICAL SURVEY BY Timothy W. Smith, PLS #2373 during October, 2011, per Job No. 11-167. Unless stated otherwise, any monument referred to herein as a "5/8" rebar is a set 5/8" diameter steel concrete reinforcing rod, eighteen inches (18") in length, with a yellow plastic cap stamped "T. W. Smith LS 2373" or "set magnail" is a set 1 1/2" magnail with washer stamped "T. W. Smith LS 2373". The basis of bearing stated herein is based on GPS North. BEING a portion of the same property (FOURTH TRACT, FIFTH TRACT, SIXTH TRACT, SEVENTH TRACT) conveyed by deed of record in Deed Book No. 338, Page 171 in the office of the county clerk of the Meade County Court, by deed of record in Deed Book No. 338, Page 164 in the office aforesaid, by deed of record in Deed Book No. 293, Page No. 109 in the office aforesaid, and by deed of record in Deed Book No. 190, Page No. 110 in the office aforesaid.

In the event of inaccuracies or insufficiencies in the foregoing legal description, Orion may modify this Exhibit A to correct such inaccuracies or insufficiencies, and shall notify you of any such modification.

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EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 086-00-00-056

Beginning at a stone corner to the lot known as the Case Building, and Harland Dugan; thence with the 6 lots S. 6 1/2 W. 19 6/10 poles equal to 325 feet to a stone corner to Mrs. William Berry's lot; thence with her lot S. 73 3/4 E. 9 poles 1 link or 150 feet to a stone on the Highway No. 448; thence with the Highway S. 6 1/2 W. 145 poles to a stone where the Sandy Hill Road intersects 448; thence with the Sandy Hill S. 70 1/2 W. 81 1/4 poles to a stone in the Old Brandenburg and Hardinsburg road and corner to James Frakes; thence with the old road and Frakes N. 9 1/2 E. 104 poles to a turn; thence N. 6 E. 78 1/2 poles to a turn a stone; thence N. 29 1/2 E. 59 1/2 poles to a stone corner to J. P. Powell 15 feet back from the original corner in J. P. Powell's line; thence with the Powell line and Harlan Dugan S. 39 3/4 E. 50 poles to the beginning, and containing 82 3/10 acres of land more or less. And being the same property conveyed to Christine Miles and H. R. Miles, her husband, by Deed from Robert C. Jackson and Naomi Jackson, his wife, dated the 7th day of December, 1963, which Deed is of record in the office of the Clerk of the Meade County Court in Deed Book 100 at Page 43.

ALSO,

Situated along the southerly side of Kentucky Highway 1239 and being along the center line of the Old Hardinsburg Road in Meade County, Kentucky and being part of a 0.2278 acre tract as conveyed by deed to James Michael Diehl and Karen Sue Diehl in Deed Book 388, Page 177 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Commencing for reference a 1/2" iron pin in concrete found in the centerline of the Old Hardinsburg Road in the southerly right-of-way of Kentucky Highway 1239 at being a corner of James L. Roach's 2.226 acre tract (D.B. 636, Page 451), thence with the line of said Roach's 2.226 acre tract S 34°21'30" W 200.50' to a railroad spike set at the corner of Jerry Miles (D.B. 109, Page 155) and marking the True Point of Beginning for this tract herein described; Thence with the line of said Miles S 36°31'25" E passing an iron pin set at 15.66' a total distance of 25.64' to a point in the line of Earl & Shirley Roach's 3-1/2 acre tract (D.B. 133, Page 344); Thence with the grantor's line S 35° 13'24" W 212.80' to a point; Thence continuing with the grantor's lands N 74°55'26" W 20.00' to 1/2" iron pin in concrete found at the southeasterly most corner of said Roach's 2.226 acre tract and being a corner of Richardson Holdings of Ky, LLC 213.214 acre tract (D.B. 601, Page 122); Thence with the line of said Roach's 2.226 acre tract and following the general centerline of the Old Hardinsburg Road N 33°06'45" E 98.34' to a 5/8" iron pin and cap found stamped T.W. Smith 2373; Thence continuing with the line of said Roach's 2.226 acre tract and the general centerline of the Old Hardinsburg Road N 34 °21 '30" E 129.46' to the beginning containing 0.112 acres of land more or less.

The above legal description is based on an actual field survey completed by Matthew D. Sibole, PLS 3869 on November 11, 2016. All iron pins set are 1/2" diameter by 18" in length with green plastic cap stamped "M. Sibole, PLS 3869".

BEING a part of the same property conveyed to James Michael Diehl and Karen Sue Diehl, his wife, from Homer Lee Richardson and Kaye Richardson, his wife, by quitclaim deed dated November 30, 1993 and recorded in Deed Book 338, page 177, Meade County Clerk's Office.

CONFIDENTIAL

ALSO,

Beginning at a stake in the right of way of old U.S. Highway No. 60, corner to Lot No. 5 thence with Lot #5 N 74 W. 150 feet to a stake, thence N. 6 1/2 E. 49 feet to a stake, corner to Lot 17, thence a line of Lot #7 S. 74 E. 150 feet to the right of way of U.S. Highway No. 60, thence with said Highway S. 6 1/2 W. 49 feet to the place of beginning and being Lot #6 and containing .175 acres, more or less.

Being the same property described in deed dated August 6, 1987 and filed for record in Deed Book 249 at Page 220 in the office of the Meade County Court Clerk.

In the event of inaccuracies or insufficiencies in the foregoing legal description, Orion may modify this Exhibit A to correct such inaccuracies or insufficiencies, and shall notify you of any such modification.

CONFIDENTIAL

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 078-00-00-044

Being Parcels No. 1, 2 and 3 of the Minnie Young Estate Subdivision per subdivision plat recorded in Plat Cabinet 4, Sheet 199 in the Office of the Meade County Court Clerk, Brandenburg, Kentucky.

In the event of inaccuracies or insufficiencies in the foregoing legal description, Orion may modify this Exhibit A to correct such inaccuracies or insufficiencies, and shall notify you of any such modification.

CONFIDENTIAL

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 078-00-00-044.01

Being Parcels No.4, 5, and 6 of the Minnie Young Estate Subdivision per subdivision plat recorded in Plat Cabinet 4, Sheet 199 in the Office of the Meade County Court Clerk, Brandenburg, Kentucky.

In the event of inaccuracies or insufficiencies in the foregoing legal description, Orion may modify this Exhibit A to correct such inaccuracies or insufficiencies, and shall notify you of any such modification.

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 096-00-00-039 (66 acres)

Parcel I: Beginning at a stone corner in A. Knott's line and corner to L. J. Meador's line, thence with his line South $59 \frac{1}{4}$ West $95 \frac{1}{2}$ poles to a stone corner to L. J. Meador at the old Elizabethtown and Concordia Road, thence with the road North $41 \frac{1}{4}$ West $52\text{-}4/5$ poles to a stone corner to Hall, thence with Hall's line North 58 East 112 poles to a stone, A. Knott's corner, thence with Knott's line South 23 East $52 \frac{1}{2}$ poles to the beginning and containing Thirty Three and seven tenths ($33\text{-}7/10$) of land, more or less.

Parcel II: Beginning at a stone corner to James Meador on Old Road, thence with the road North $30 \frac{3}{4}$ West $15 \frac{1}{6}$ poles to a stone corner to Charles Mattingly, thence with his line North $54 \frac{3}{4}$ East 63 poles to a stone, thence North $29 \frac{1}{2}$ West $61 \frac{1}{3}$ poles to a stone corner to Mattingly, Basham and J. W. McCoy, thence with J. W. McCoy's line North 50 East 54 poles to a stone McCoy's line, thence South $29 \frac{1}{2}$ East 89 poles to a stone corner to James Meador, thence with his line South 58 West 113 poles to the beginning and containing $33 \frac{48}{100}$ acres of land more or less.

Being the same property acquired by MICHAEL G. MEADOR and BETTY L. MEADOR, his wife, by General Warranty Deed dated January 26, 1980, of record in Deed Book 164, Page 202, in the Office of the Clerk of Meade County,

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

EXHIBIT A

Description of Property

ALL THAT CERTAIN real estate lying and being situated in Meade County, Kentucky, being more particularly bounded and described as follows:

Real Property Tax Parcel No. 096-00-00-038 (117.45 acres)

A certain tract of land situated, lying and being in Meade County, Kentucky, bounded and described as follows:

Beginning at a stone corner to Neal Neafus (Now George Neafus), thence North 44 1/2 W 262 poles to some small post oaks near an old road, thence North 56 3/4 East 67 poles to a stone corner to William Shearlock, thence with his line South 31 1/4 East 36 1/2 poles, thence North 71 1/2 East 66 poles to a stone corner to Shearlock in Smiley Henrys line, thence with his line South 49 East 190 poles to a stone in Johnson Mill Road corner to Smiley Henry in Singleton Brown's line, thence with said road South 45 West 11 poles to the beginning, containing 140 acres, more or less.

EXCEPTING THEREFROM so much of said property as was conveyed to the Commonwealth of Kentucky for the use and benefit of the Department of Highways, by Deed for Highway Purposes, dated May 15, 1957, of record in Deed Book 90, Page 603, in the Office of the Meade County Clerk

There is excepted from the above described property and not hereby conveyed the 2 acres conveyed to Jane Newton by Deed dated February 26, 1977 of record in Deed Book 138, Page 103, Office of the Meade County Court Clerk.

There is further excepted and not hereby conveyed the approximately 18 7/10 acres conveyed to James E. Meador and wife by Deed from Lewis J. Meador and wife dated January 16, 1954, of record in Deed Book 85, Page 357, Office of the Meade County Court Clerk.

EXCEPTING THEREFROM THE FOLLOWING:

Situated along the northeasterly right-of-way of Kentucky Highway 1726 (A.K.A. Meador Road) being a part of the remaining part of a 140 acre tract as conveyed by deed to James E Meador and Genieve Meador in Deed Book 249, Page 146 of the Meade County, Kentucky Clerk's records and being more particularly described as follows:

Commencing for reference at a 5/8" iron pin found stamped M. Sibole, PLS 3869 in the northeasterly right-of-way of Kentucky Highway 1726 at the northwesterly most corner of Raymie L. Greenwell's 2.00 acre tract (D. B. 671, Pg. 476), thence generally along the northeasterly right-of-way of said Kentucky Highway 1726 N 36°36'34" W 886.02' to an iron pin set marking the True Point of Beginning for this tract herein described having a Kentucky Single Zone State Plane Coordinate of N 3'858663.4214 E 4784635.5831; Thence continuing with the

northeasterly right-of-way of Kentucky Highway 1726 N 36°52'15" W 386.62' to an iron pin set; Thence by new division line through the grantor's lands N 56°30'47" E 291.39' to an iron pin set; Thence S 36°55'24" E 377.52' to an iron pin set; Thence S 54°43'25" W 291.34' to the beginning containing 2.553 acres of land more or less.

Being the same property acquired by JAMES E. MEADOR (erroneously referred to as JAMES E. MEADOR) and GENIEVE MEADOR, his wife, and JANE NEWTON, and C.L. MEADOR, as to an undivided one-third interest each, in joint survivorship, by General Warranty Deed dated January 13, 1981, of record in Deed Book 173, Page 92, in the Office of the Clerk of Meade County, Kentucky; and being the same property conveyed by JANE NEWTON and ALTON NEWTON, her husband, and C. L. MEADOR, single, to JAMES E. MEADOR and GENIEVE MEADOR, his wife, in joint survivorship, by General Warranty Deed dated July 30, 1987, of record in Deed Book 249, Page 146, in the Office of the Clerk of Meade County, Kentucky; and the said JAMES E. MEADOR having died, intestate, on or about October 22, 2017, vesting title solely in GENIEVE MEADOR, his wife, by survivorship; and the said GENIEVE MEADOR having died, intestate, on or about April 25, 2019, vesting title in MICHAEL MEADOR, as to an undivided one-half interest, and JUDITH MORRISON, as to an undivided one-half interest, by Affidavit of Descent dated December 2, 2019, of record in Deed Book 682, Page 220, in the Office aforesaid.

(In the event of inaccuracies or insufficiencies in the foregoing legal description, Lessee may record an amendment of this Memorandum to correct the inaccuracies or insufficiencies)

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2

Tab 11

Attachment A

Exhibit 3

Preliminary Site Layout
(23 Pages)

CONCEPTUAL SITE PLAN

GREEN RIVER SOLAR PROJECT

PREPARED FOR



GREEN RIVER SOLAR, LLC
700 UNIVERSE BLVD
JUNO BEACH, FL 33408

Contact: Lina Jensen, Project Director
NextEra Energy Resources
(832) - 613 - 7247

**MEADE COUNTY AND
BRECKINRIDGE COUNTY,
KENTUCKY, 40146**

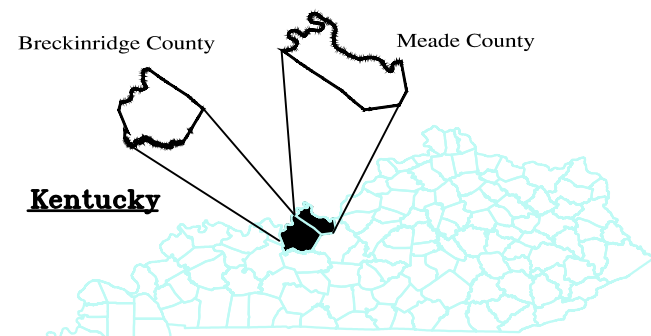
BY



707 East Third Avenue
New Smyrna Beach, Florida 32169
Tel: (386) 427-0694 Fax: (386) 427-0889
Agent's E-mail: cfagerstrom@ectinc.com
Agent's Tel: (386) 852-0387
<http://www.ectinc.com>

ECT PROJECT NUMBER 20-0594

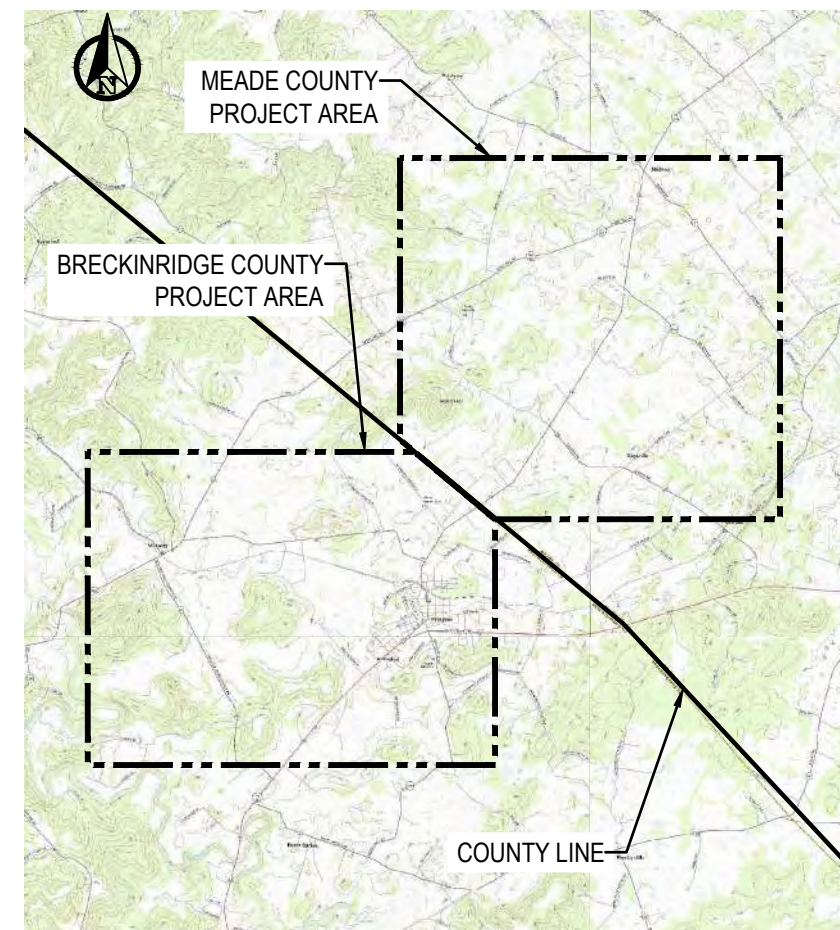
**JUNE 2021
KENTUCKY SITING BOARD
REVIEW SET**



KENTUCKY STATE MAP
N.T.S.

PROJECT SITE INFORMATION	
SITE ADDRESS	TBD
COUNTY PARCEL NUMBER	VARIOUS
GPS COORDINATES	VARIOUS
SITE ELEVATION	680 FT A.M.S.L.
UTILITY NAME	TBD
UTILITY ADDRESS	TBD
UTILITY CONTACT INFORMATION	TBD
DEVELOPER NAME	GREEN RIVER SOLAR, LLC
DEVELOPER ADDRESS	700 UNIVERSE BLVD., JUNO BEACH, FL
DEVELOPER CONTACT	LINA JENSEN
CIVIL ENGINEER OF RECD (EOR) NAME	TBD
CIVIL EOR ADDRESS	TBD
CIVIL EOR CONTACT INFORMATION	TBD
APPLICABLE BUILDING PERMIT AUTHORITY	TBD
SYSTEM SIZE (MW)	200
SYSTEM DC SIZE (MW)	TBD
MODULE COUNT	10,232
INVERTER COUNT	89 + 10 ALTERNATES
SWITCHGEAR COUNT	TBD
TRANSFORMER COUNT	1
EQUIPMENT PAD COUNT	TBD
POLE COUNT	TBD
PROJECT ZONING	AGRICULTURAL
NON PARTICIPATING PARCEL BUFFER	50 FEET
OCCUPIED STRUCTURE BUFFER	250 FEET
ROAD R.O.W. BUFFER	25 FEET
SURFACE WATER BUFFER	25 FEET
WETLAND BUFFER	25 FEET
STREAM BUFFER	25 FEET
PROJECT AREA	1,750 ACRES
ROAD LENGTH	TBD
LANDSCAPE BUFFER	26,582 FEET

ALTA SURVEY BY:



USGS TOPO MAPS: KY BIG SPRING, KY GARFIELD, KY GUSTON, KY IRVINGTON

PROJECT LOCATION MAP
N.T.S.

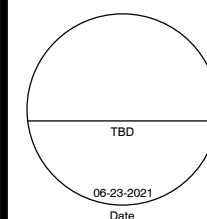
INDEX OF DRAWINGS

C1.00	COVER PAGE
C1.01	EXISTING CONDITIONS
C1.02	OVERALL SITE PLAN
C1.03	MEADE CO. SITE PLAN
C1.04	BRECKINRIDGE CO. SITE PLAN
C1.05 - C1.24	1:200 SCALE SITE EXHIBIT
NOTE:	C1.06 AND C1.11 WERE REMOVED

Page 1 of 24
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NEXTERA ENERGY
**GREEN RIVER SOLAR
MEADE &
BRECKINRIDGE Co.,
KENTUCKY**

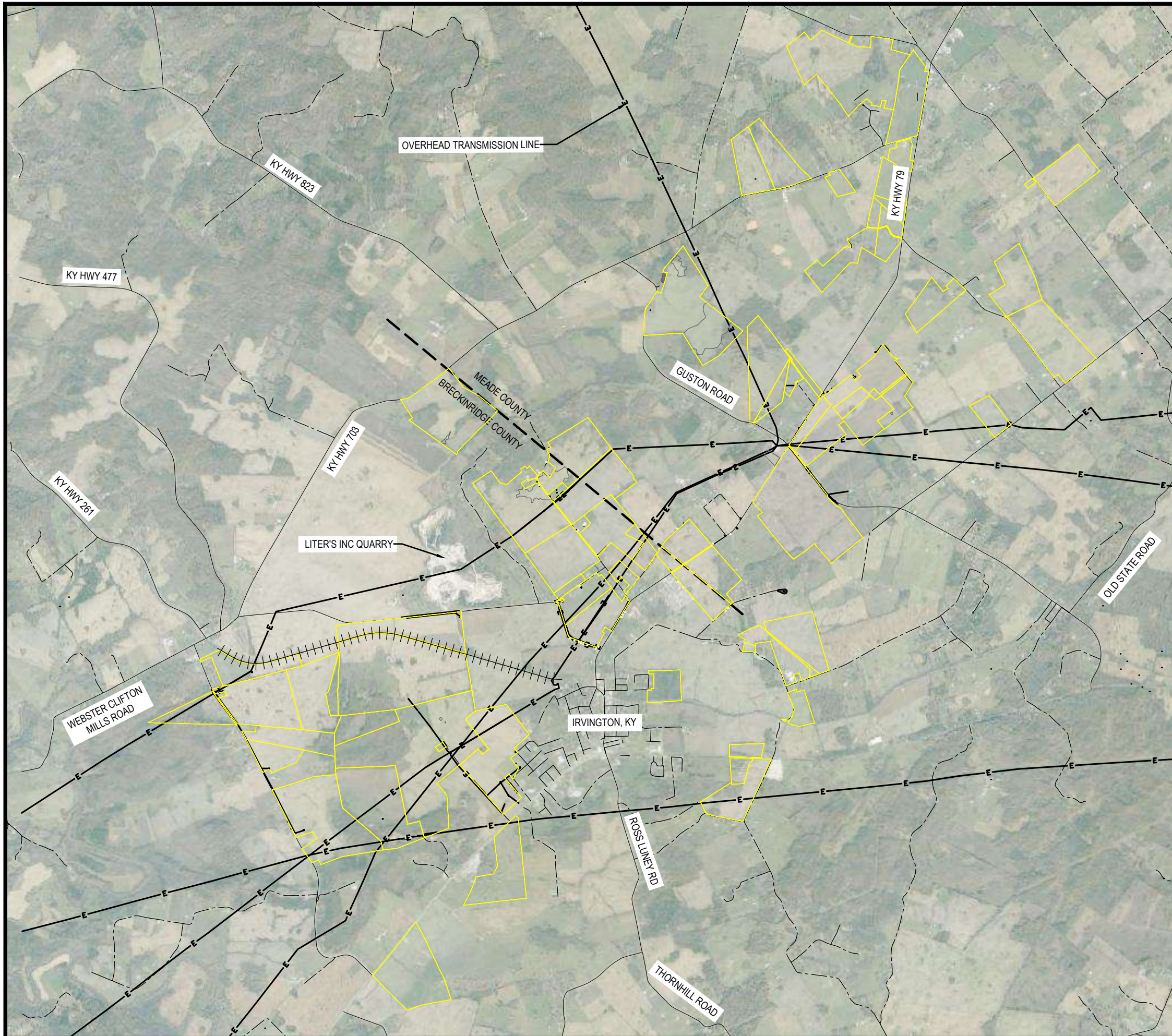
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DESIGNED BY:	NextEra Energy, Inc.
DRAWN BY:	MRA
CHECKED BY:	DMW/XG
APPROVED BY:	TBD
CONCEPT PLAN	06-23-2021



COVER PAGE

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LEGEND

- PARTICIPATING PARCELS
- COUNTY LINE
- COUNTY & LOCAL ROADS
- MAJOR STATE ROADS
- E OVERHEAD ELECTRIC
- ||||| RAIL ROAD TRACKS

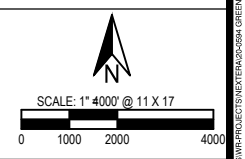
Page 2 of 24
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TBD
 Date
 06-23-2021

EXISTING CONDITIONS

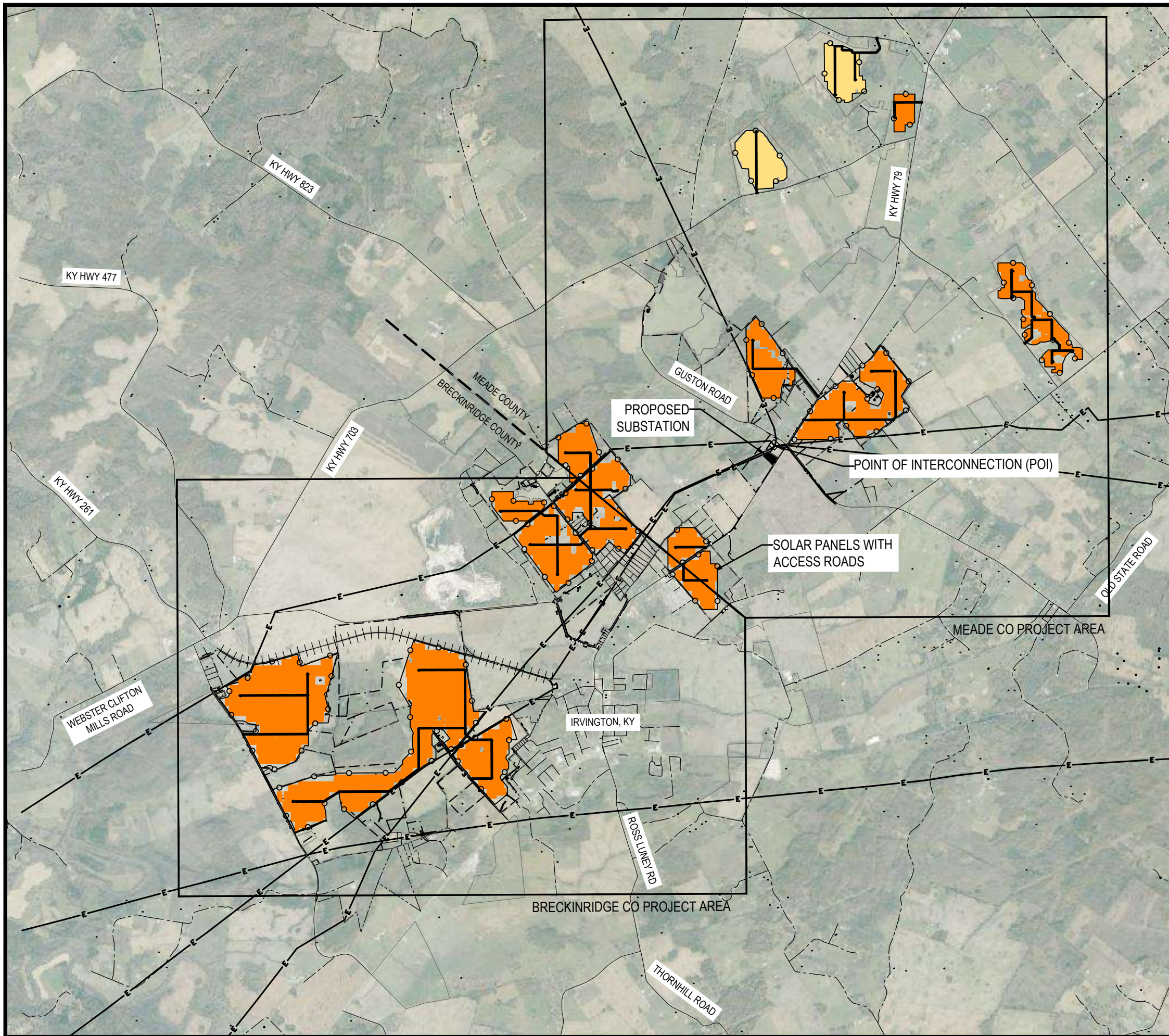


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GREEN RIVER SOLAR
MEADE & BRECKINRIDGE Co., KENTUCKY

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CONCEPT PLAN	06-25-2021

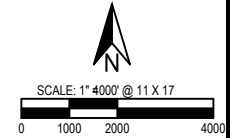


LEGEND

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- PROPERTY LINE
- COUNTY & LOCAL ROADS
- MAJOR STATE ROADS
- E— OVERHEAD ELECTRIC
- + + + + + RAIL ROAD TRACKS
- PROPOSED ROADS
- ○ SECURITY FENCE
- SOLAR ARRAYS
- ALTERNATE SOLAR ARRAYS

TBD
06-25-2021
Date

OVERALL SITE PLAN

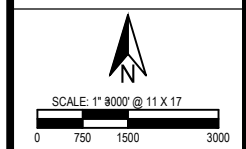


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MEADE & BRECKINRIDGE Co., KENTUCKY

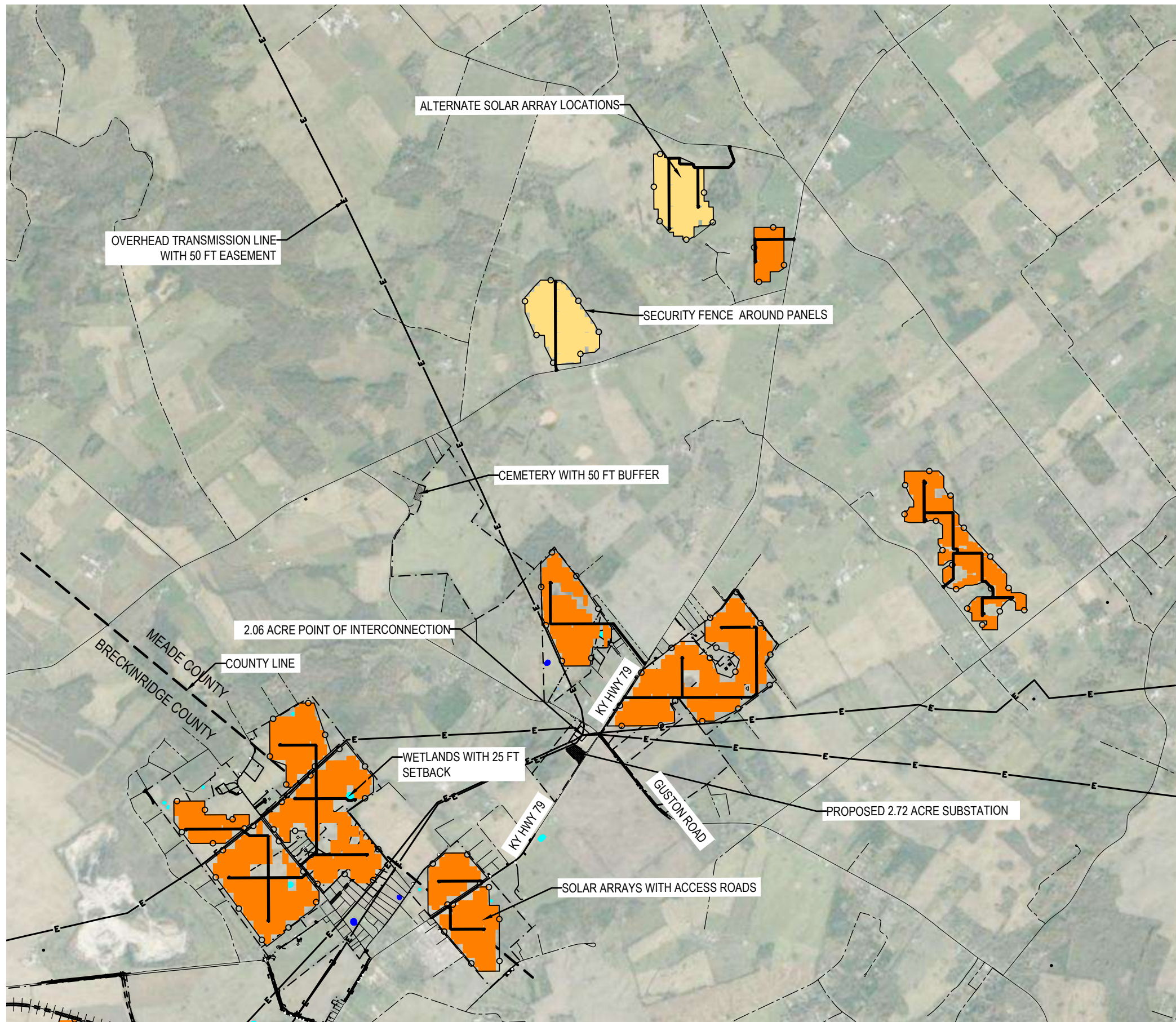
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06-25-2021
Date

MEADE COUNTY SITE PLAN



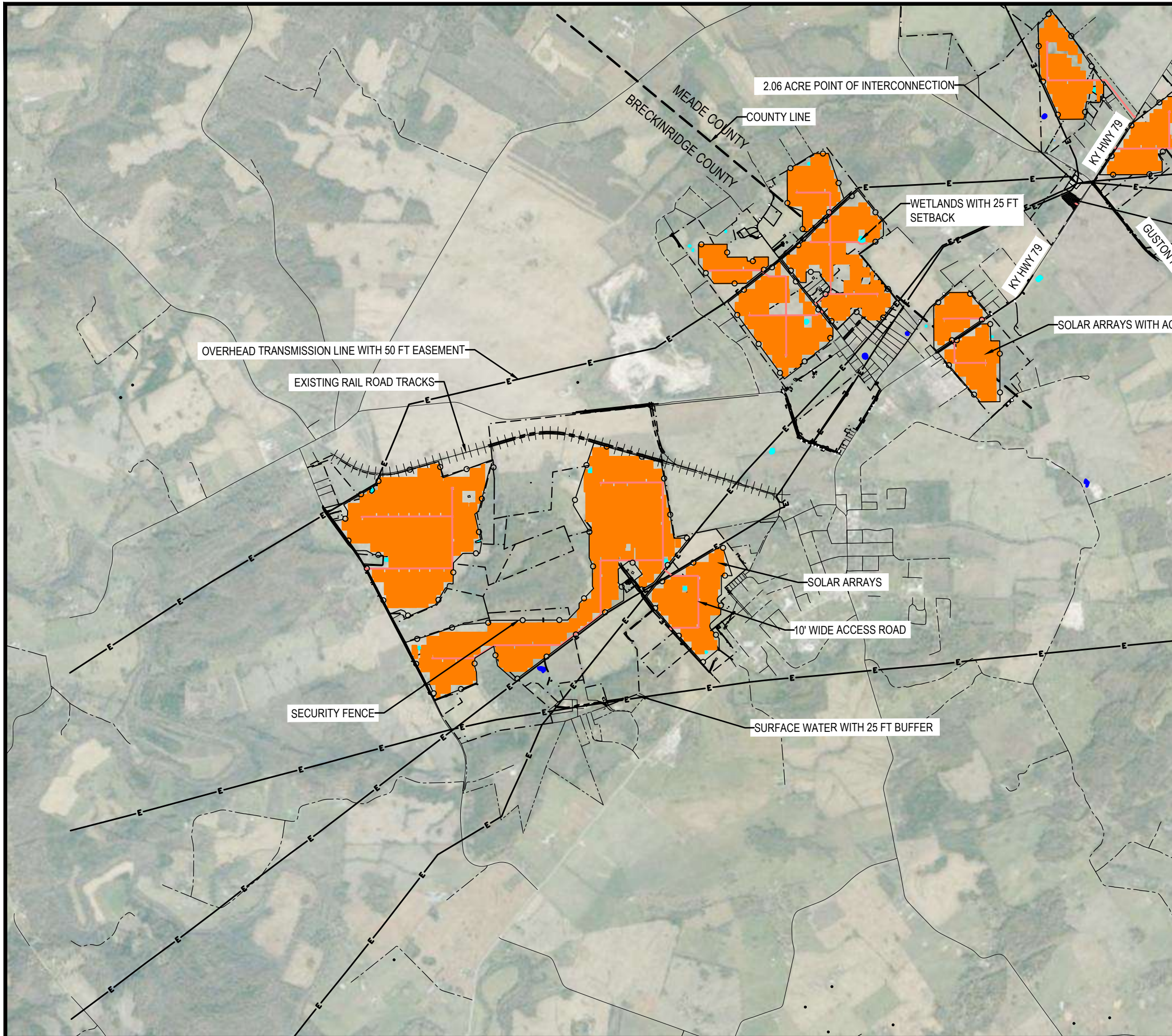
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- RIGHT-OF-WAY LINE
- PROPERTY LINE
- COUNTY & LOCAL ROADS
- MAJOR STATE ROADS
- OVERHEAD ELECTRIC
- RAIL ROAD TRACKS
- PROPOSED ROADS
- SECURITY FENCE
- SOLAR ARRAYS
- ALTERNATE SOLAR ARRAYS
- WETLANDS
- SURFACE WATERS/STREAMS

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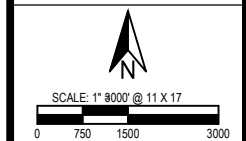
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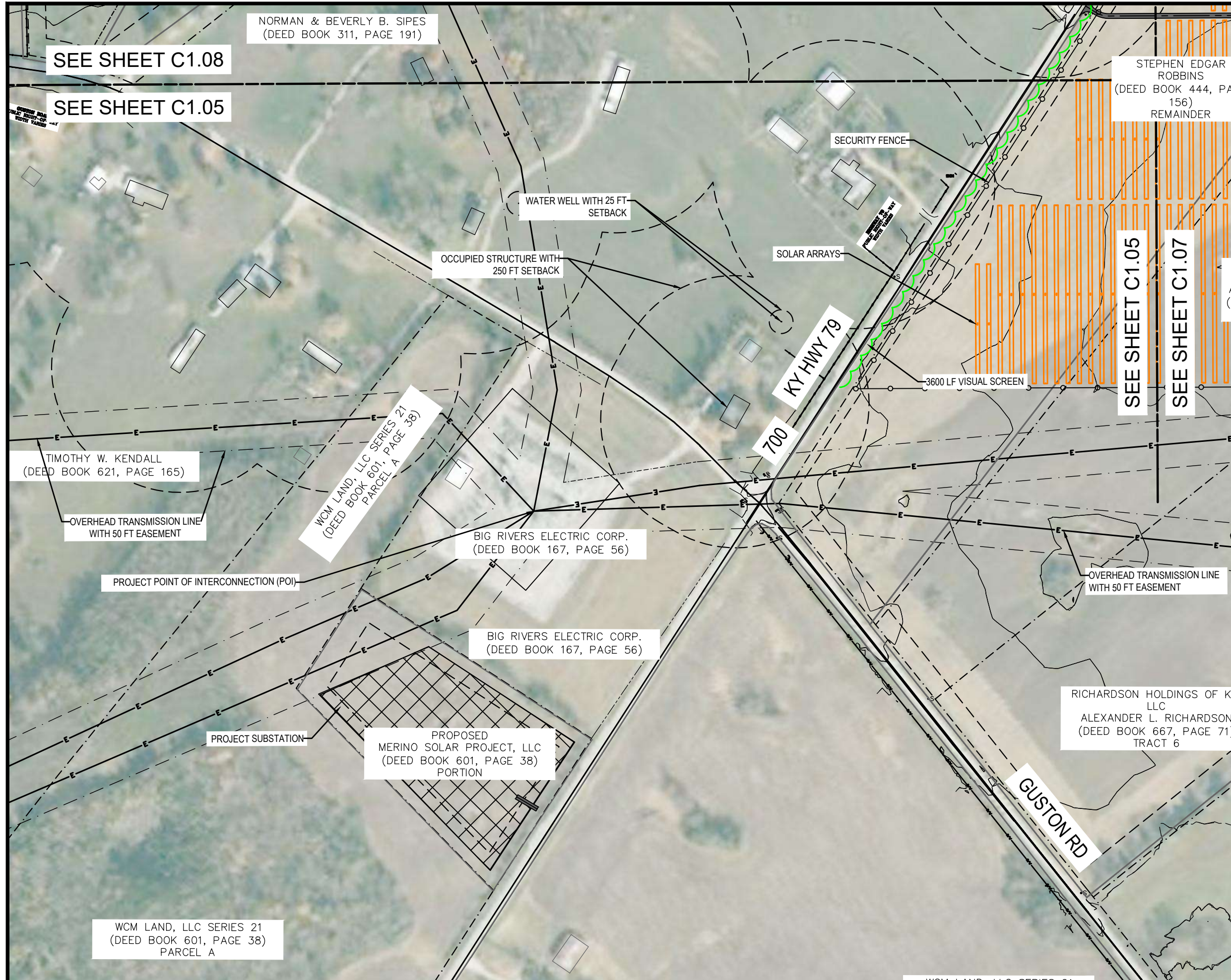
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BRECKINRIDGE COUNTY SITE PLAN



C1.04



LEGEND

- PARCEL LINE
- EXISTING ROAD
- SETBACK LINE
- OVERHEAD LINE
- EASEMENT
- MAJOR CONTOUR
- SURFACE WATERS
- WETLANDS
- SOLAR ARRAY
- SECURITY FENCE
- INVERTER
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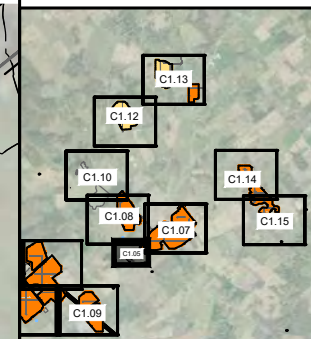
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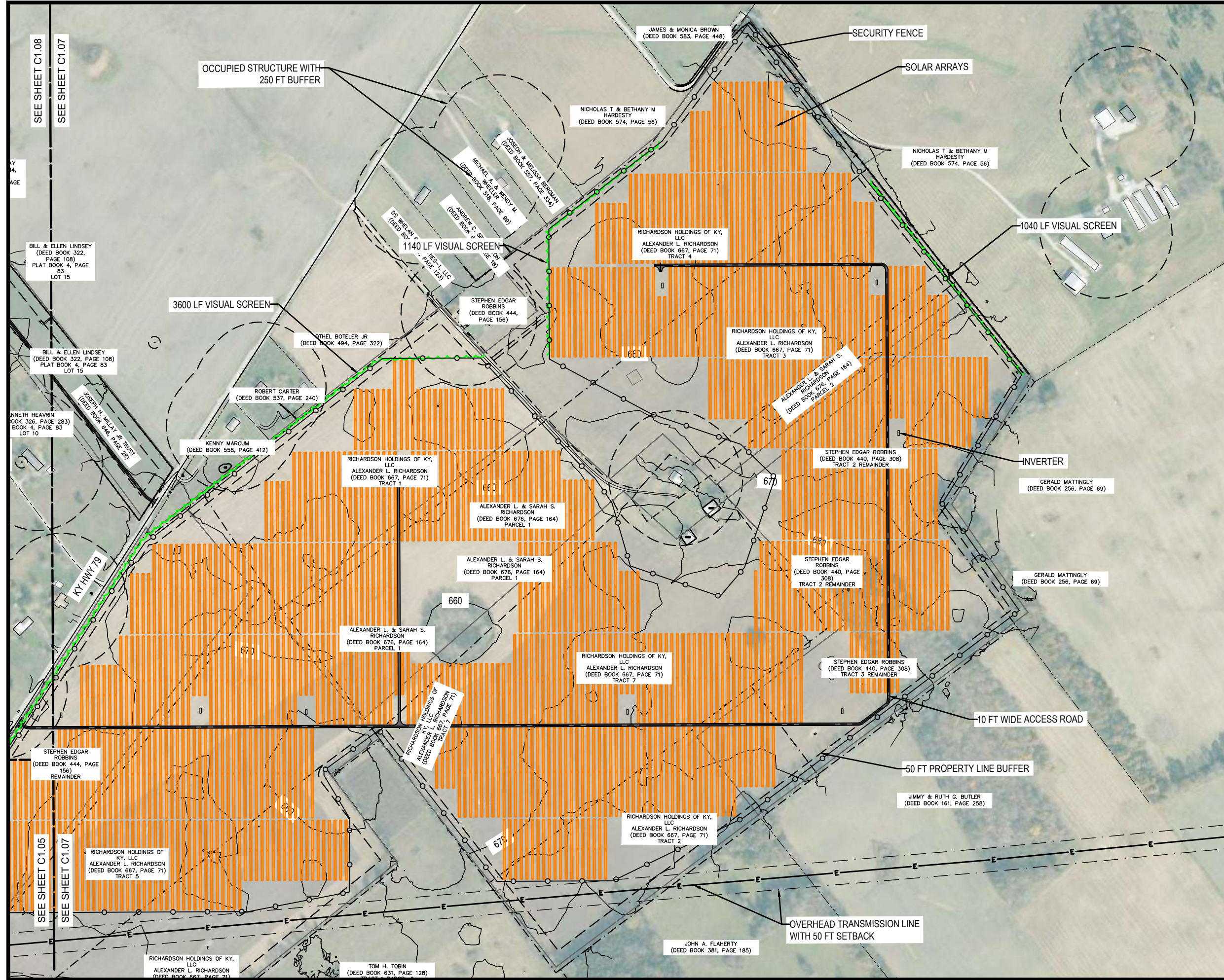


SITE EXHIBIT

SCALE: 1" = 200' @ 11 X 17

0 50 100 200

C1.05



LEGEND

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- SETBACK LINE
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- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
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- SURFACE WATERS
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- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER

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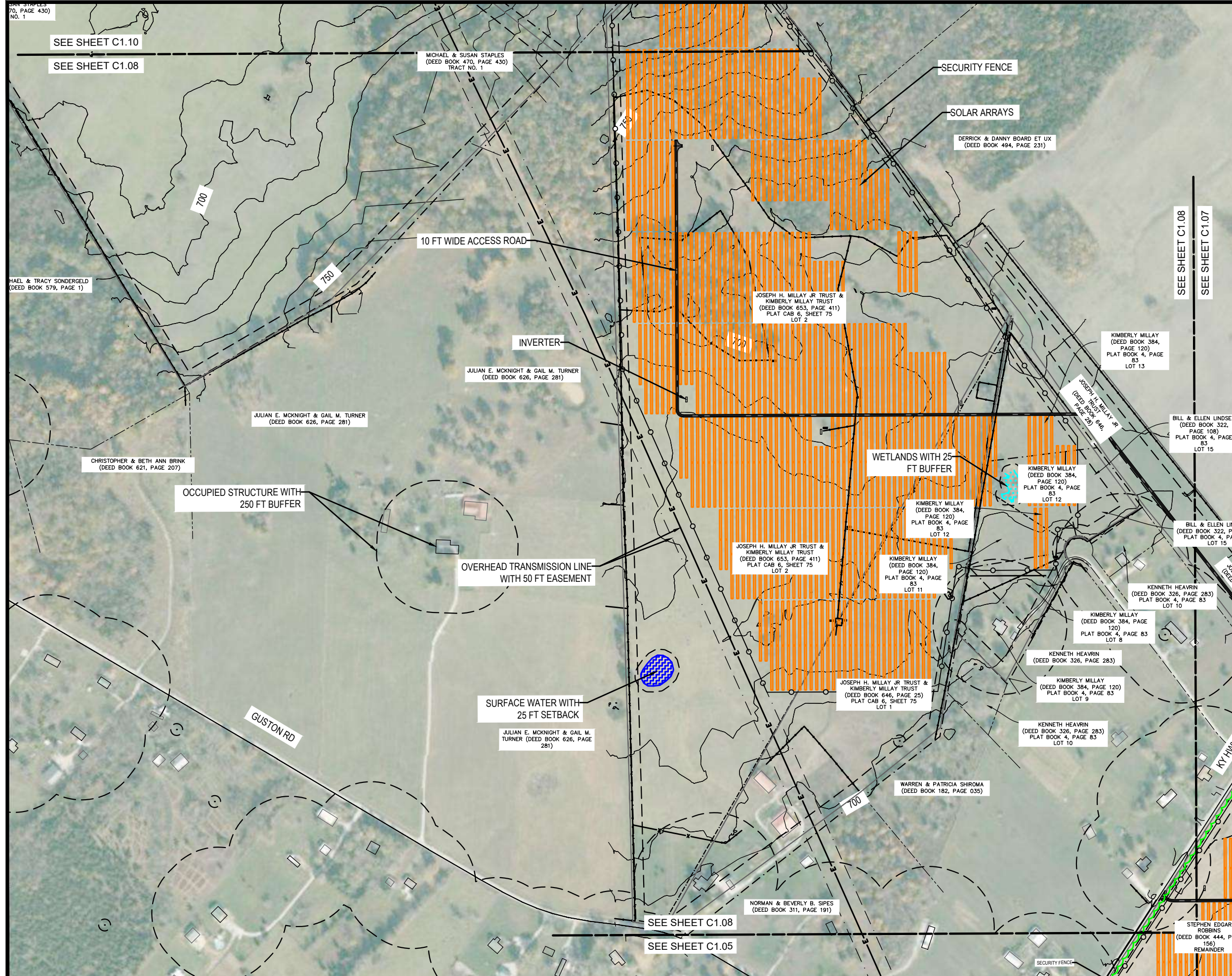
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SEE SHEET C1.08
 SEE SHEET C1.07
 SEE SHEET C1.05
 SEE SHEET C1.07

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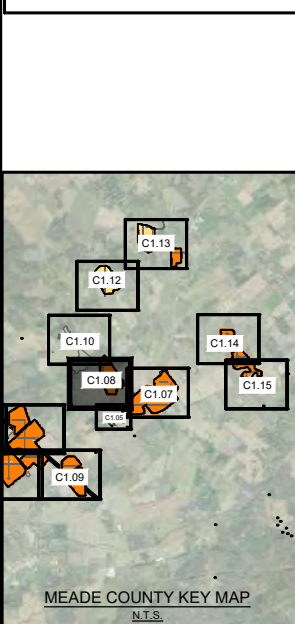
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- WETLANDS
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 Date

SITE EXHIBIT

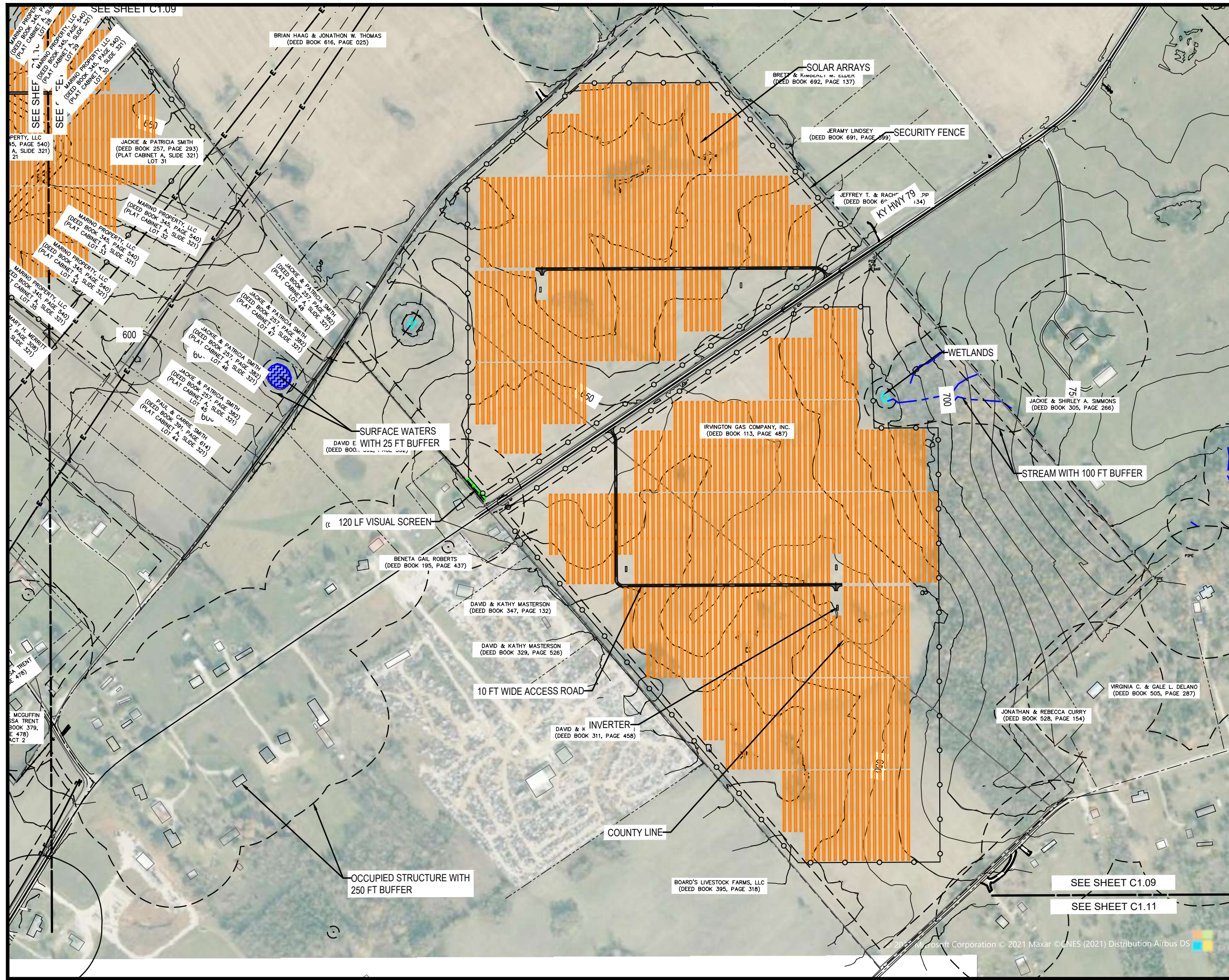
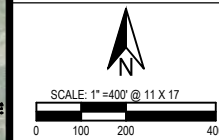
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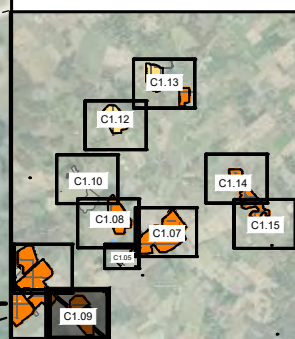
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SITE EXHIBIT



LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
- RAIL ROAD TRACKS
- SURFACE WATERS
- WETLANDS
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- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER



MEADE COUNTY KEY MAP
N.T.S.

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LEGEND

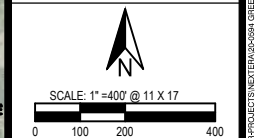
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- SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
- RAIL ROAD TRACKS
- SURFACE WATERS
- WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
- SECURITY FENCE
- INVERTER
- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER

NEXTERA ENERGY
GREEN RIVER SOLAR
MEADE & BRECKINRIDGE Co.,
KENTUCKY

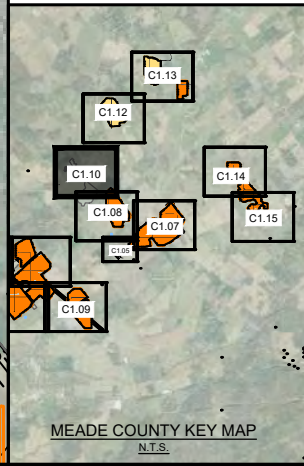
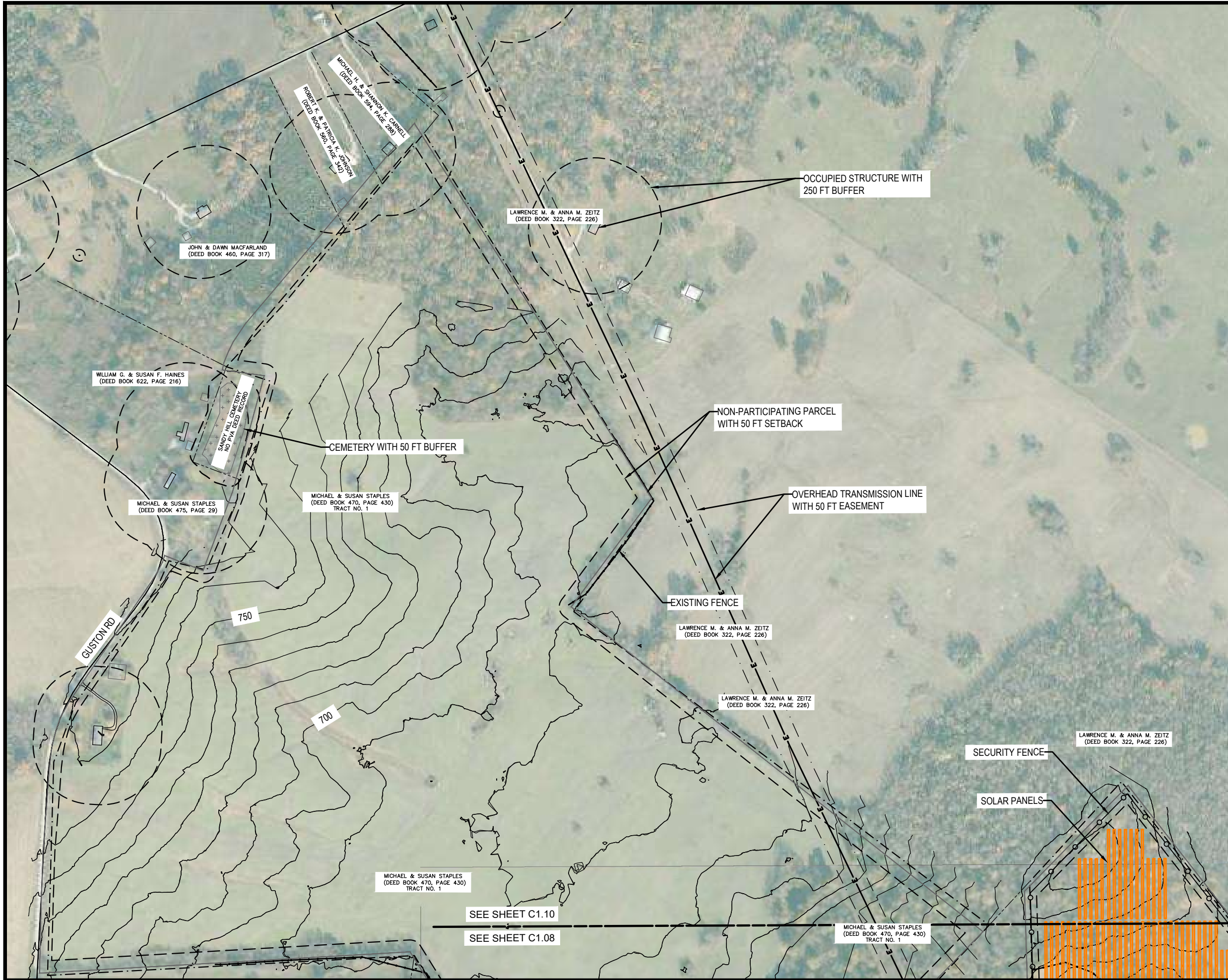
ECT PROJECT No.:	20-0594
DESIGNED BY:	NextEra Energy, Inc.
DRAWN BY:	MRA
CHECKED BY:	DMW/XG
APPROVED BY:	TBD
CONCEPT PLAN	06-25-2021

TBD
06-25-2021
Date

SITE EXHIBIT



C1.10



LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- E — OVERHEAD LINE
- x — x — EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- SURFACE WATERS
- WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
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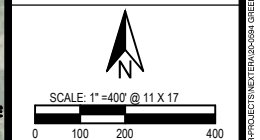
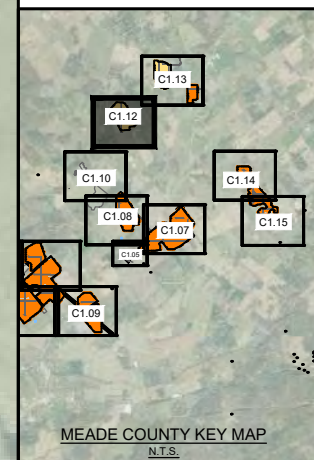
NEXTERA ENERGY

**GREEN RIVER SOLAR
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BRECKINRIDGE Co.,
KENTUCKY**

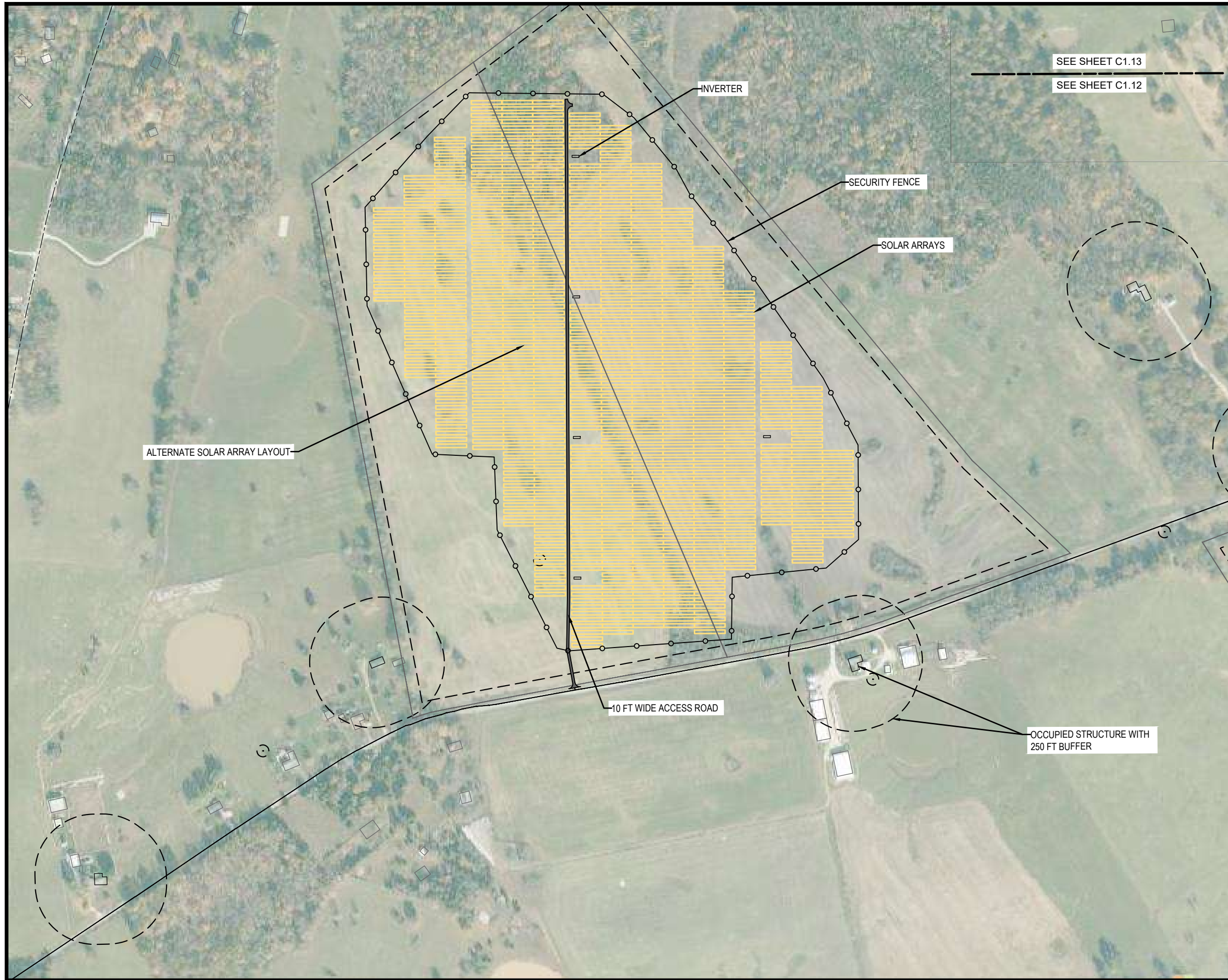
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SITE EXHIBIT



C1.12



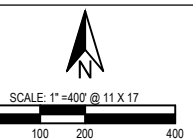


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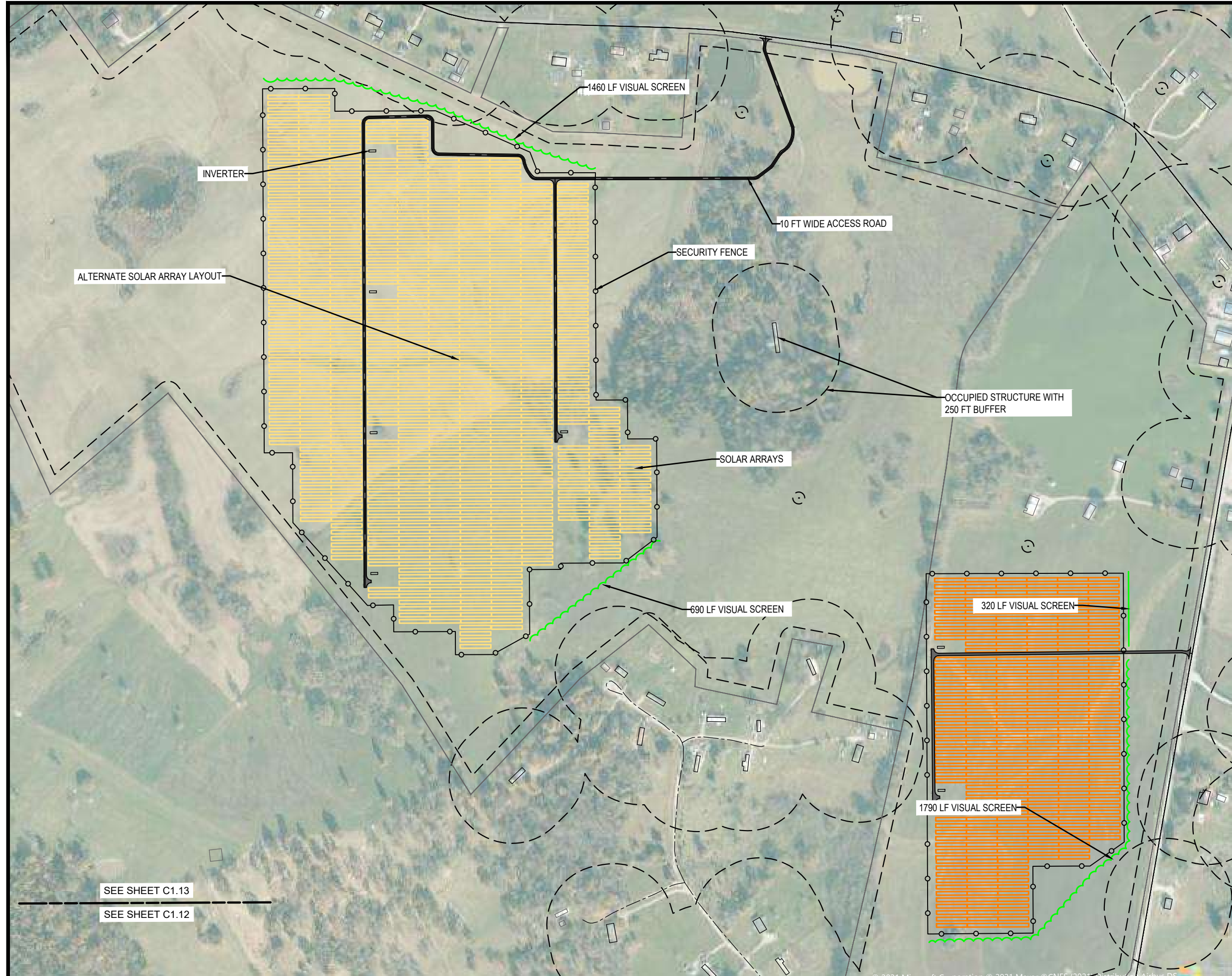
SITE EXHIBIT



C1.13

LEGEND

- PROPERTY LINE
- - - SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- x - x - EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- ▒ SURFACE WATERS
- ▒ WETLANDS
- SOLAR ARRAY
- ▒ ALTERNATE SOLAR ARRAY
- SECURITY FENCE
- INVERTER
- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER



SEE SHEET C1.13

SEE SHEET C1.12

MEADE COUNTY KEY MAP
N.T.S.

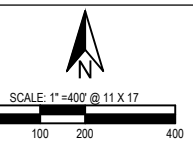


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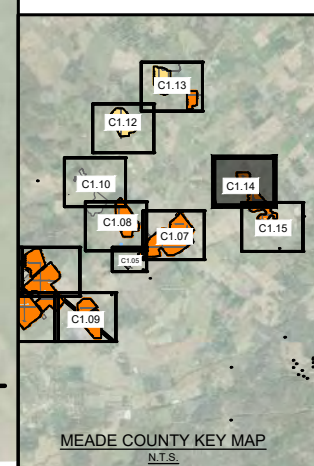
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C1.14

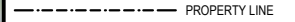
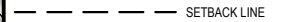
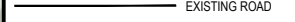












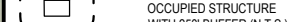
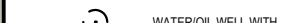

LEGEND

- PROPERTY LINE
- - - SETBACK LINE
- EXISTING ROAD
- E — OVERHEAD LINE
- x - x - EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- SURFACE WATERS
- WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
- SECURITY FENCE
- INVERTER
- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER



P:\PROJECTS\2020\2020-0594\GREEN RIVER SOLAR\DESIGN\06-25-2021\GREEN RIVER SOLAR BASE_V02.DWG

LEGEND

-  PROPERTY LINE
-  SETBACK LINE
-  EXISTING ROAD
-  OVERHEAD LINE
-  EXISTING FENCE
-  MAJOR CONTOUR
-  RAIL ROAD TRACKS
-  SURFACE WATERS
-  WETLANDS
-  SOLAR ARRAY
-  ALTERNATE SOLAR ARRAY
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-  OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
-  WATER/OIL WELL WITH 25 FT BUFFER

NEXTERA ENERGY
GREEN RIVER SOLAR
MEADE & BRECKINRIDGE Co., KENTUCKY

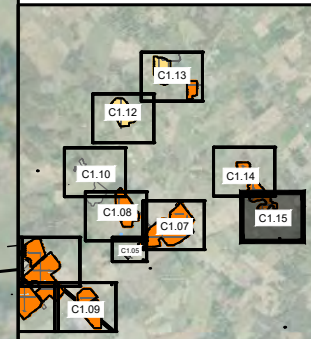
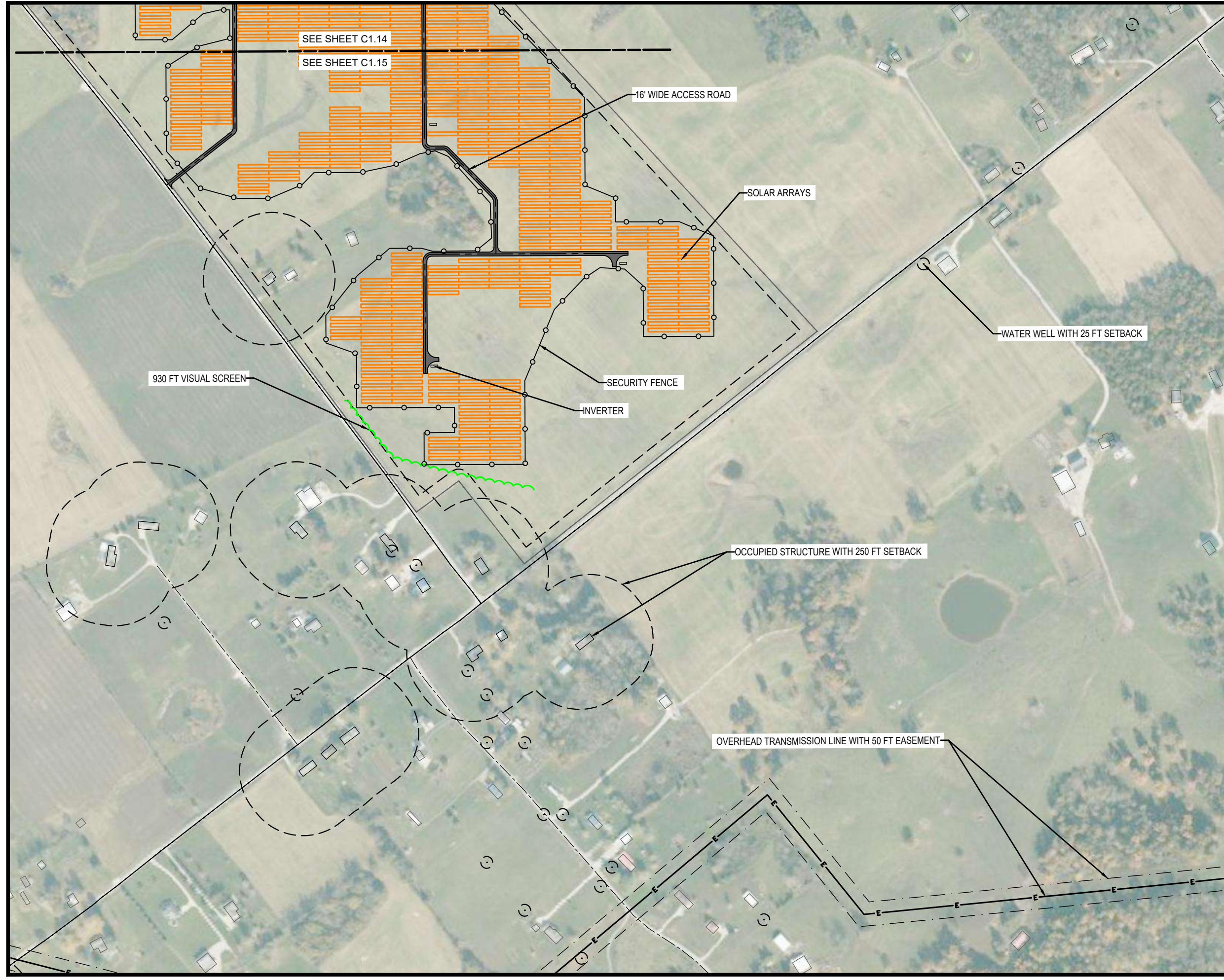
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APPROVED BY:	TBD
CONCEPT PLAN	06-25-2021

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06-25-2021
Date

SITE EXHIBIT

SCALE: 1"=400' @ 11 X 17
0 100 200 400

C1.15



MEADE COUNTY KEY MAP
N.T.S.

LEGEND

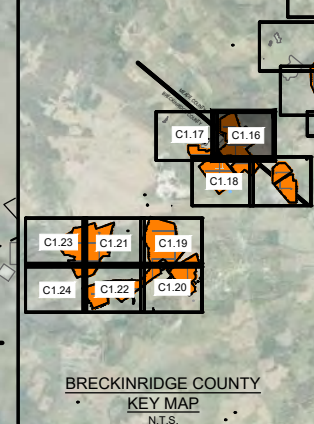
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NEXTERA ENERGY
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MEADE & BRECKINRIDGE Co., KENTUCKY

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SITE EXHIBIT

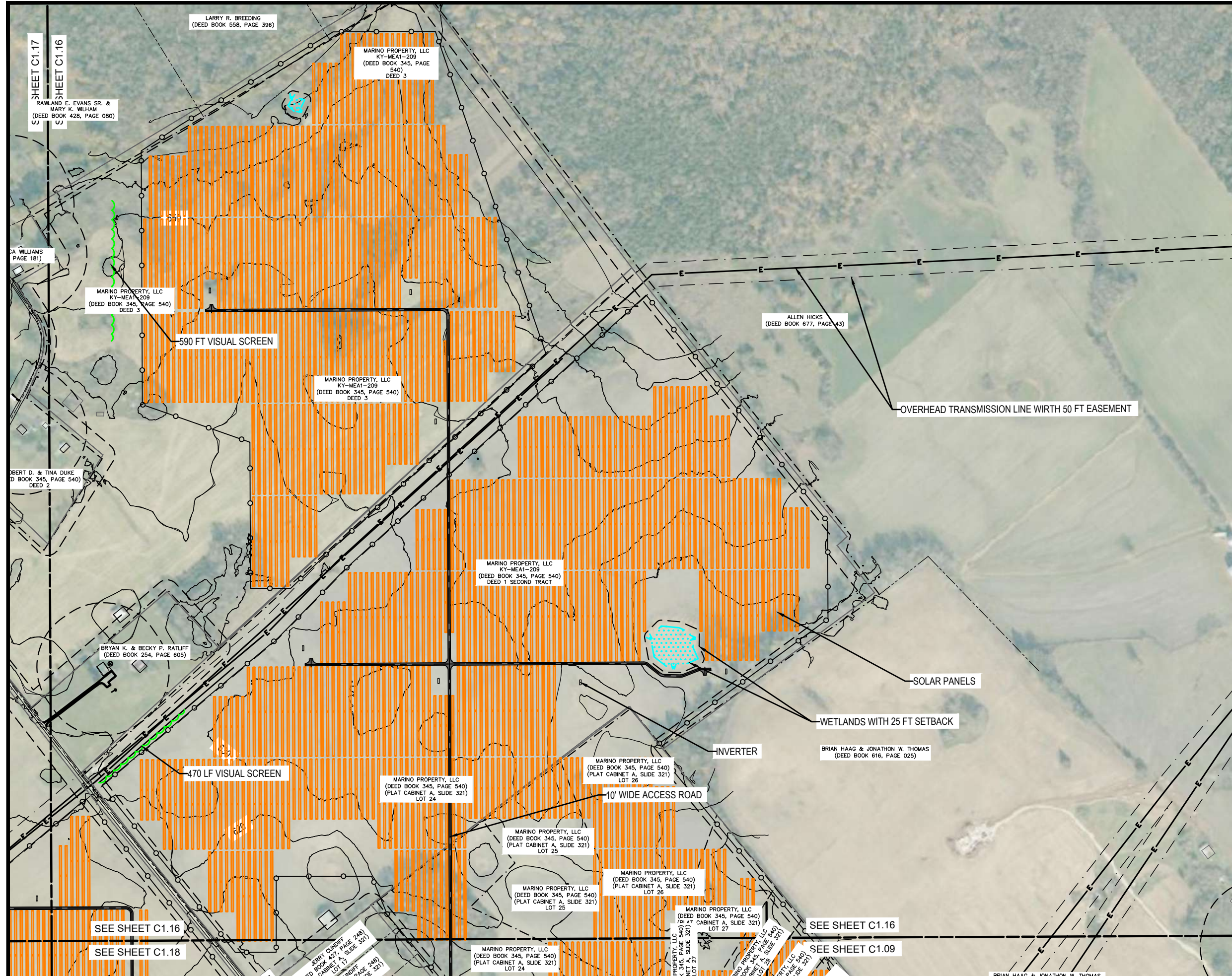


BRECKINRIDGE COUNTY KEY MAP
N.T.S.

C1.16

SCALE: 1"=400' @ 11 X 17

0 100 200 400



P:\PROJECTS\2020\2020-00387\GREEN RIVER SOLAR\DRAWINGS\GREEN RIVER SOLAR BASE 102.DWG

LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
- RAIL ROAD TRACKS
- SURFACE WATERS
- WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
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- WATER/OIL WELL WITH 25 FT BUFFER

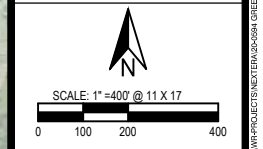
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GREEN RIVER SOLAR
MEADE & BRECKINRIDGE Co., KENTUCKY

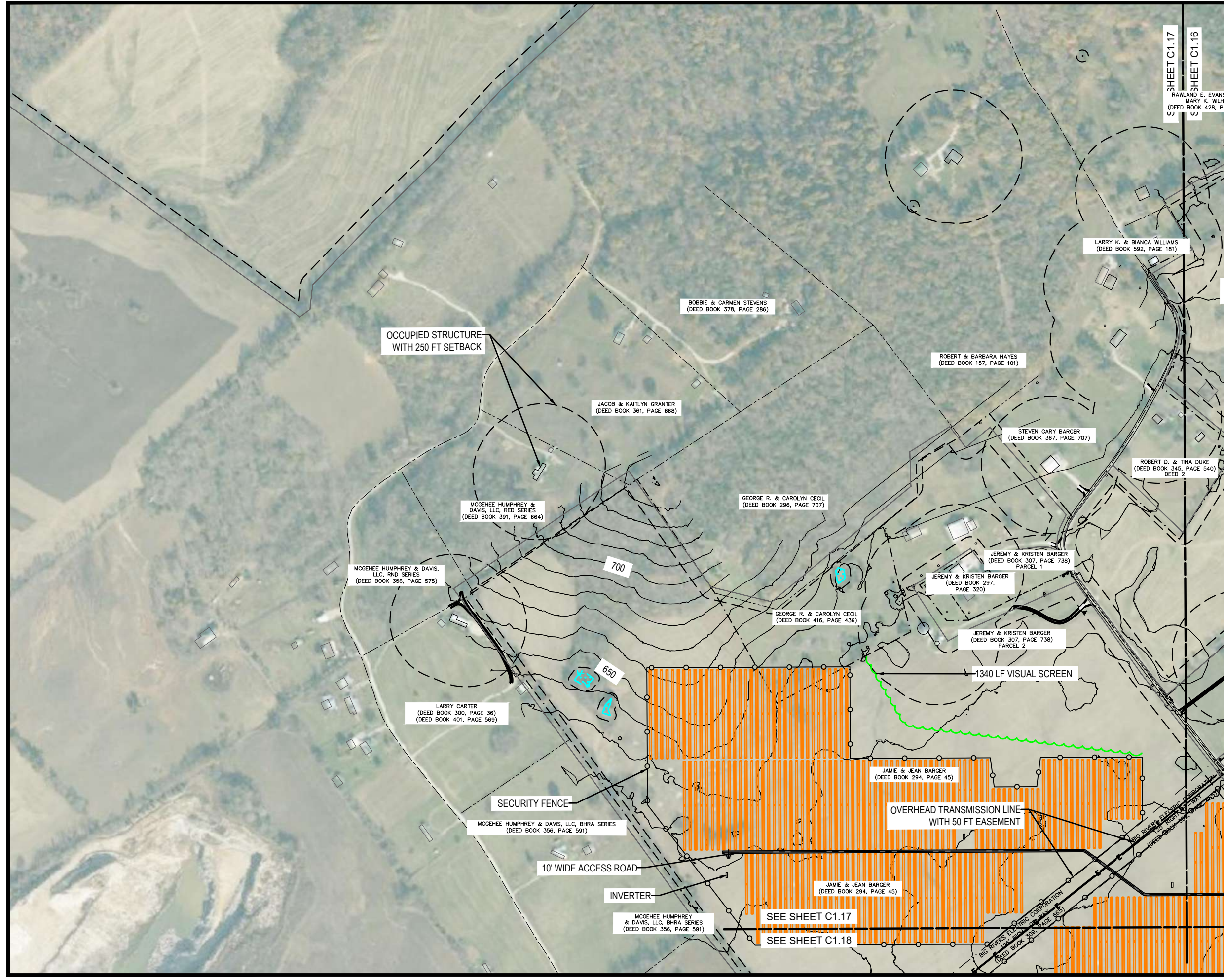
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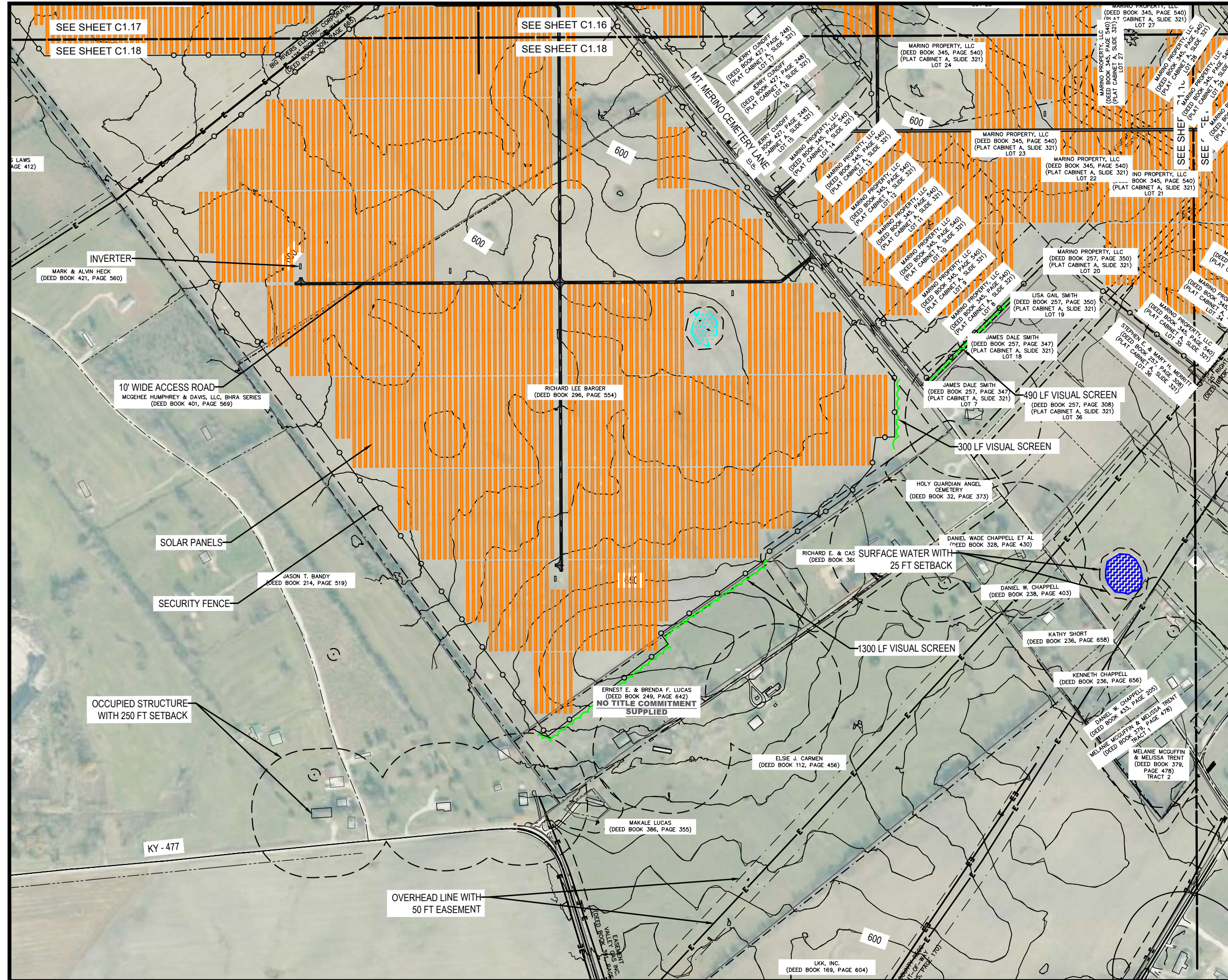
SITE EXHIBIT



C1.17



BRECKINRIDGE COUNTY
KEY MAP
N.T.S.



LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
- RAIL ROAD TRACKS
- SURFACE WATERS
- WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
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- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER

NEXTERA ENERGY

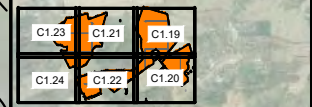
GREEN RIVER SOLAR MEADE & BRECKINRIDGE Co., KENTUCKY

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APPROVED BY:	TBD
CONCEPT PLAN	06-25-2021

TBD

06-25-2021
Date

SITE EXHIBIT



SCALE: 1" = 400' @ 11 X 17

0 100 200 400

C1.18

BRECKINRIDGE COUNTY
KEY MAP
N.T.S.

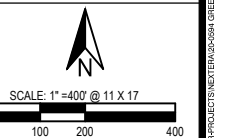


**GREEN RIVER SOLAR
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KENTUCKY**

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CONCEPT PLAN	06-25-2021

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06-25-2021
Date

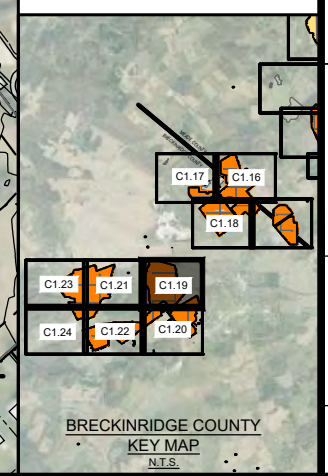
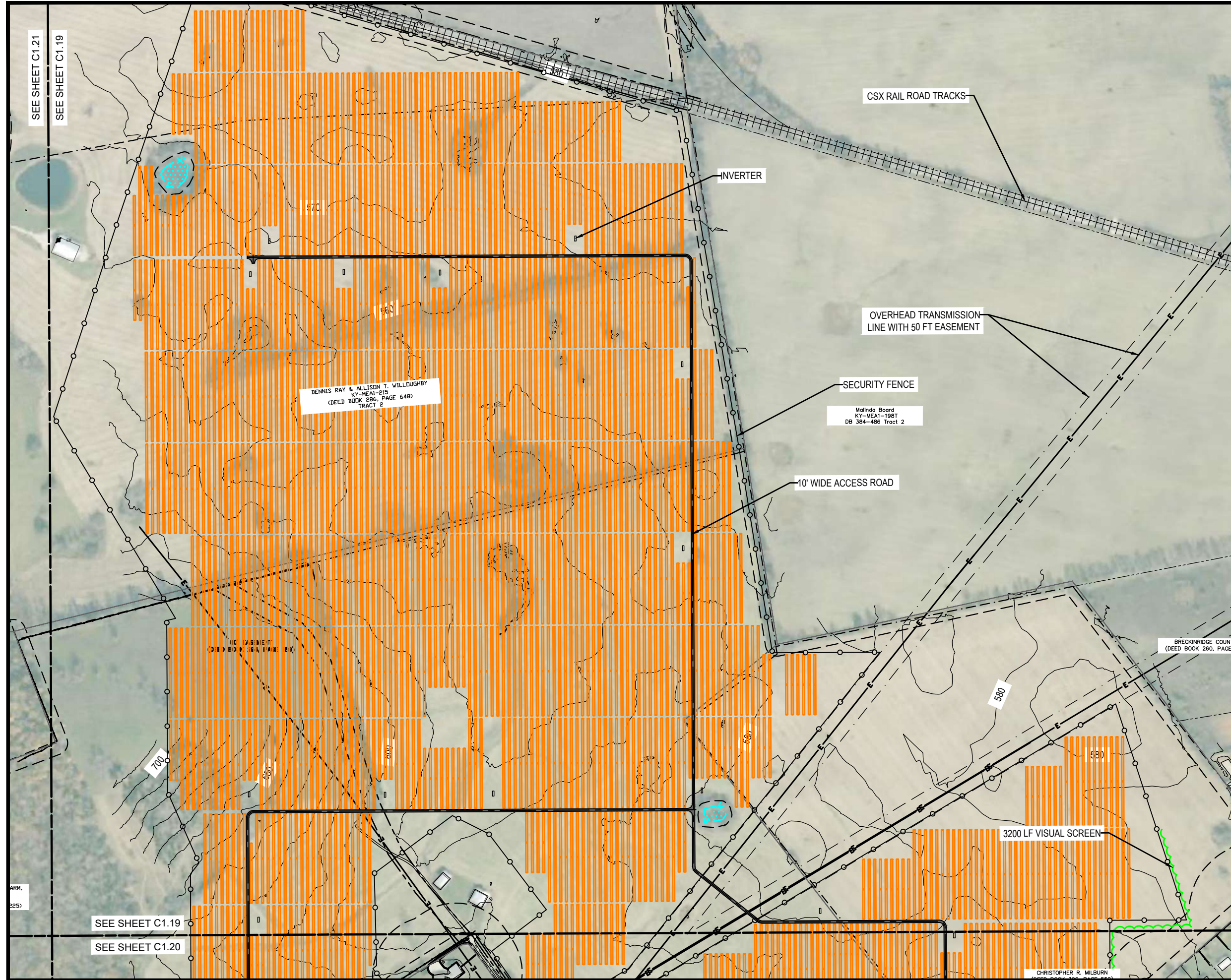
SITE EXHIBIT



C1.19

LEGEND

- PROPERTY LINE
- - - SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- x-x- EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- ▒ SURFACE WATERS
- ▒ WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
- SECURITY FENCE
- INVERTER
- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER



SEE SHEET C1.21
SEE SHEET C1.19

SEE SHEET C1.19
SEE SHEET C1.20

DENNIS RAY & ALLISON T. VILLOUGHBY
KY-MEA1-215
(DEED BOOK 286, PAGE 648)
TRACT 2

Malinda Board
KY-MEA1-198T
DB 384-486 Tract 2

BRECKINRIDGE COUNTY
(DEED BOOK 260, PAGE 2)

CHRISTOPHER R. MILBURN
(DEED BOOK 286, PAGE 550)

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KENTUCKY**

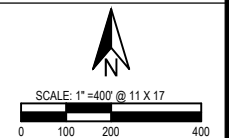
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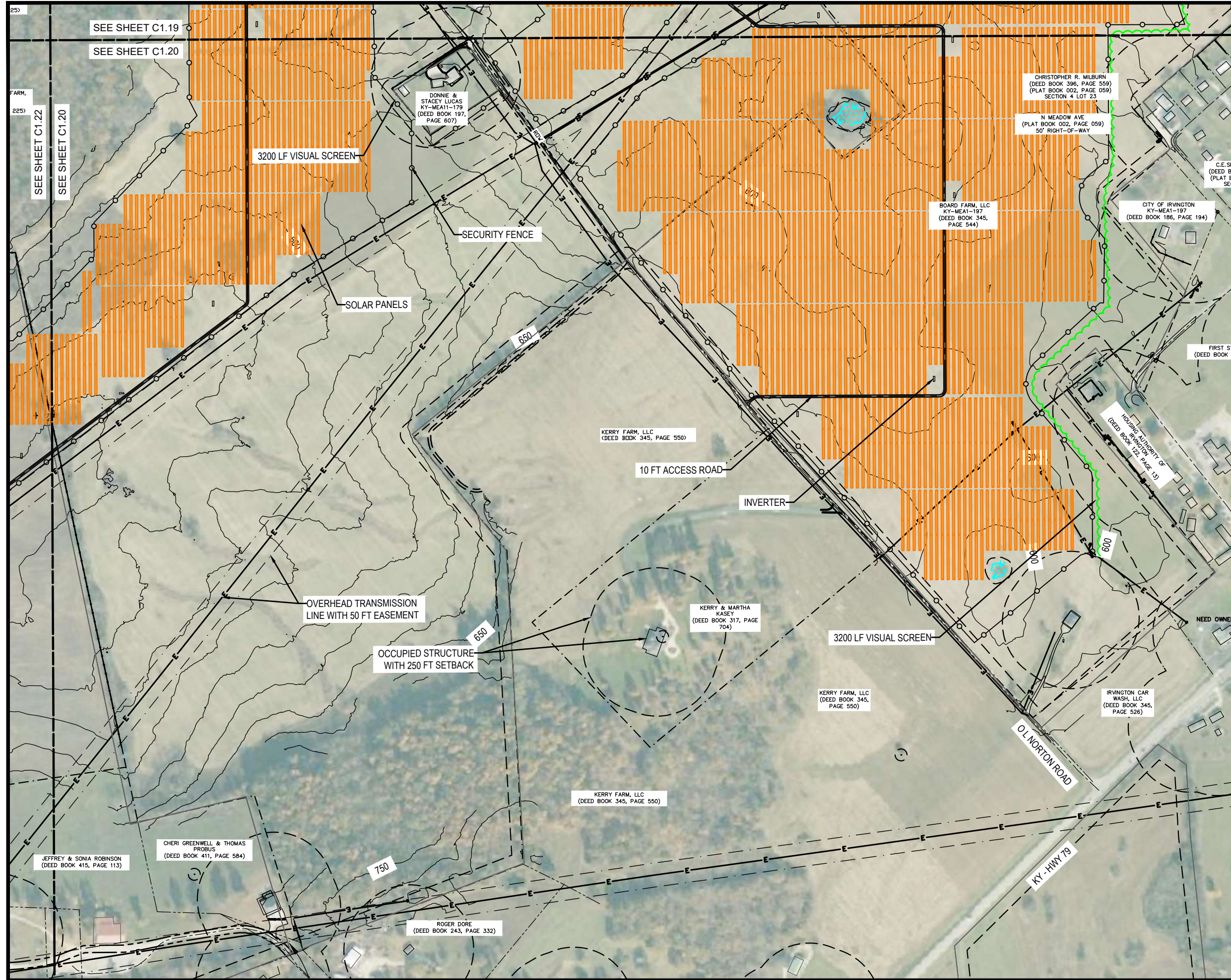
SITE EXHIBIT



BRECKINRIDGE COUNTY
KEY MAP
N.T.S.



C1.20



LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
- RAIL ROAD TRACKS
- SURFACE WATERS
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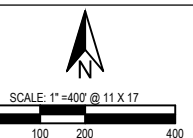


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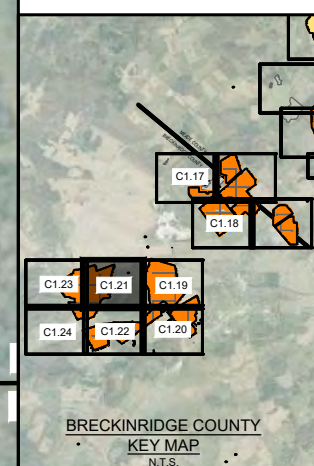
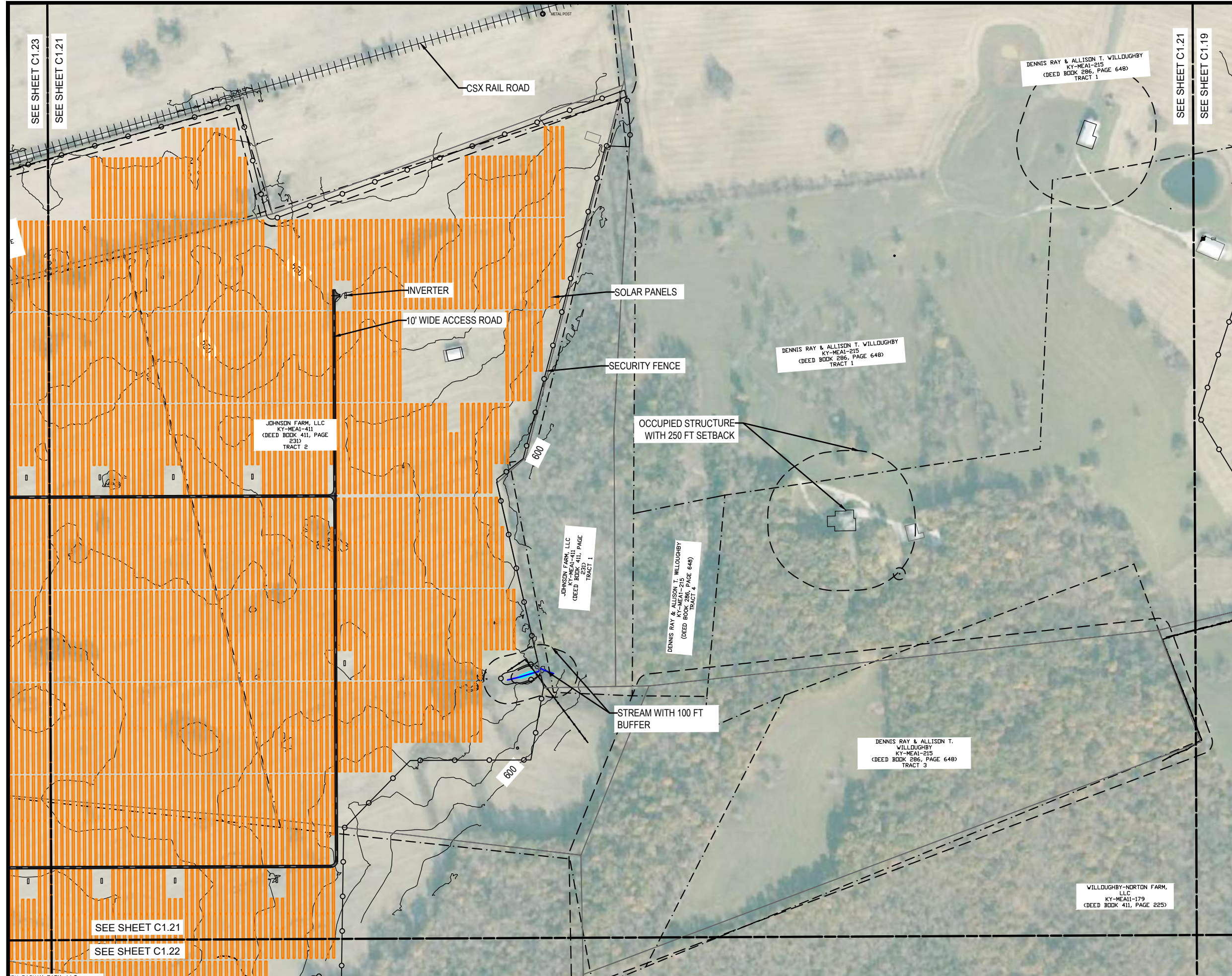
SITE EXHIBIT



C1.21

LEGEND

- PROPERTY LINE
- - - SETBACK LINE
- EXISTING ROAD
- E — OVERHEAD LINE
- x - x - EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- ▒ SURFACE WATERS
- ▒ WETLANDS
- ▒ SOLAR ARRAY
- ▒ ALTERNATE SOLAR ARRAY
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**GREEN RIVER SOLAR
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KENTUCKY**

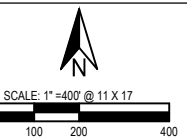
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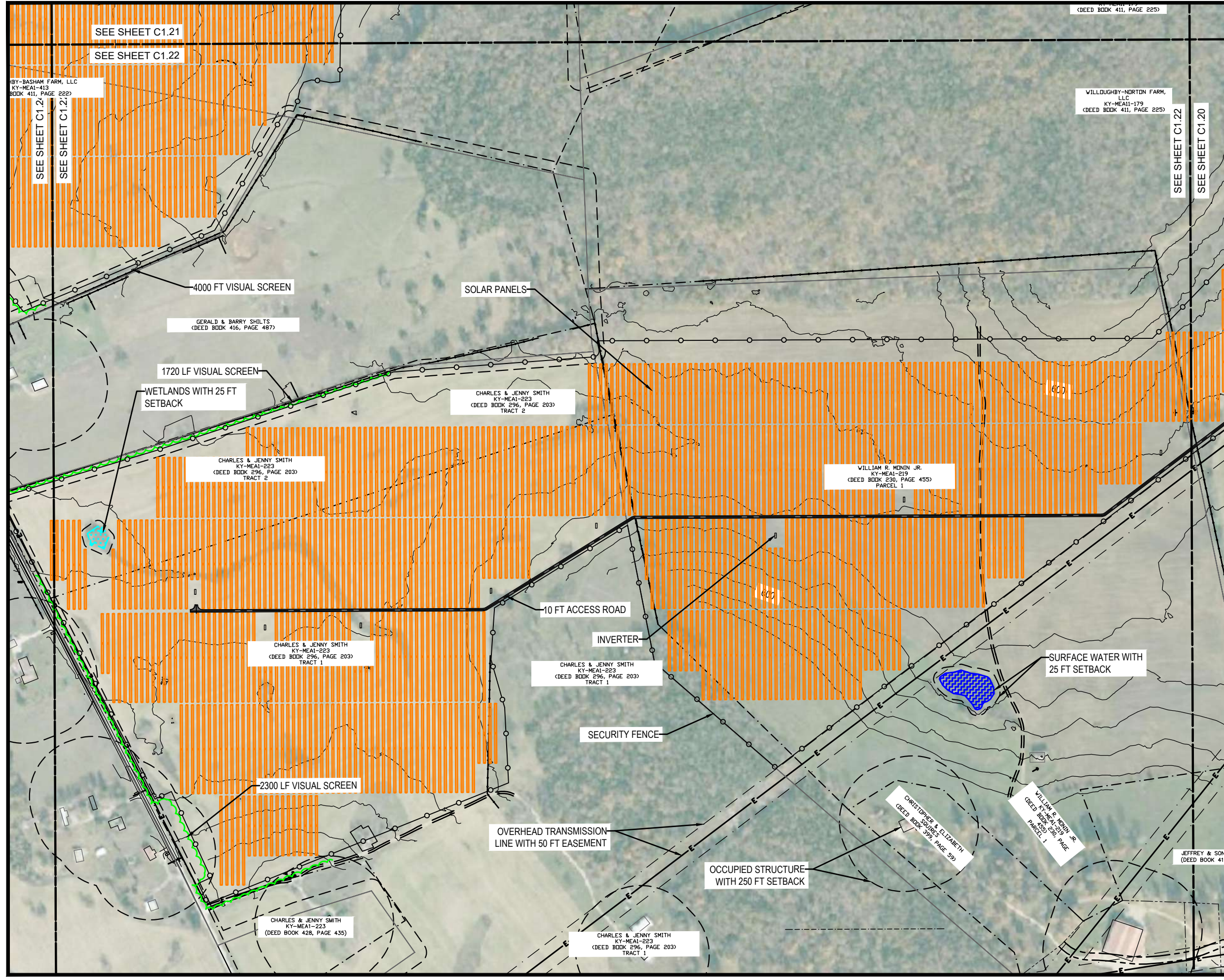
BRECKINRIDGE COUNTY
KEY MAP
N.T.S.



C1.22
N.T.S.

LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- OVERHEAD LINE
- EXISTING FENCE
- MAJOR CONTOUR
- RAIL ROAD TRACKS
- SURFACE WATERS
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- WATER/OIL WELL WITH 25 FT BUFFER

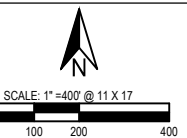


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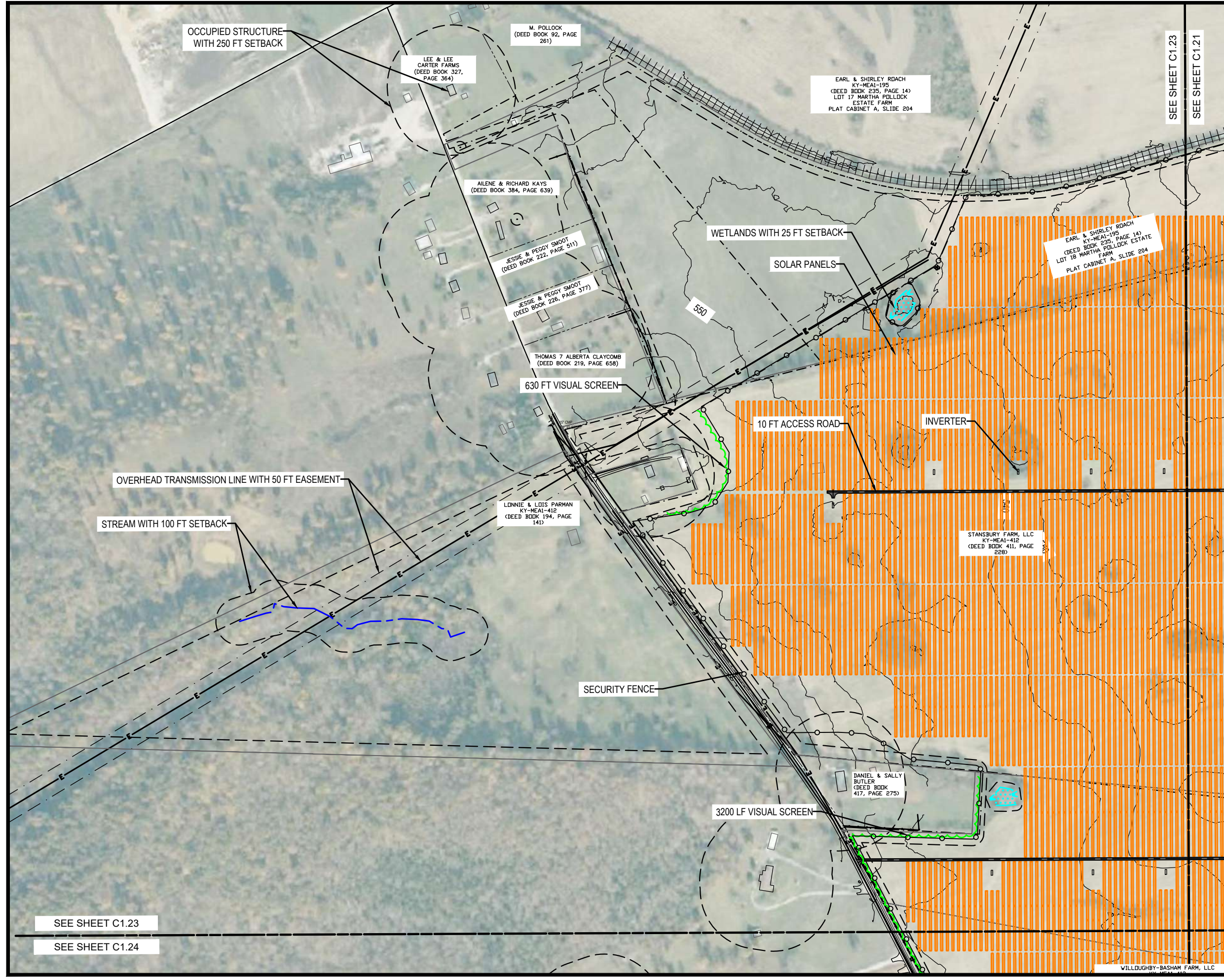
SITE EXHIBIT



C1.23

LEGEND

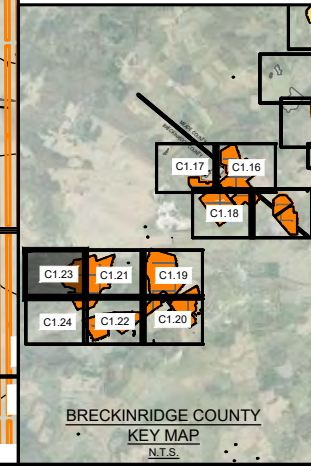
- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- E — OVERHEAD LINE
- X — X — EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- ▒ SURFACE WATERS
- ▒ WETLANDS
- ▒ SOLAR ARRAY
- ▒ ALTERNATE SOLAR ARRAY
- SECURITY FENCE
- INVERTER
- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER



SEE SHEET C1.23
SEE SHEET C1.21

SEE SHEET C1.23

SEE SHEET C1.24





GREEN RIVER SOLAR
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KENTUCKY

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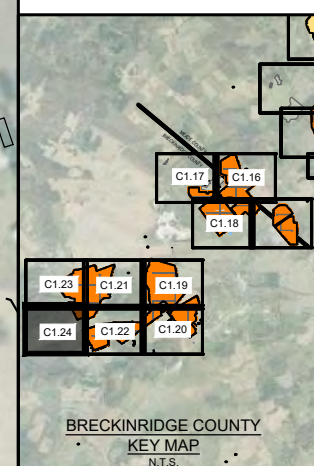


SCALE: 1"=400' @ 11 X 17
0 100 200 400

C1.24

LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING ROAD
- E — OVERHEAD LINE
- x-x- EXISTING FENCE
- MAJOR CONTOUR
- ||||| RAIL ROAD TRACKS
- ▒ SURFACE WATERS
- ▒ WETLANDS
- SOLAR ARRAY
- ALTERNATE SOLAR ARRAY
- SECURITY FENCE
- INVERTER
- PROPOSED ROAD
- VISUAL SCREEN
- UNOCCUPIED STRUCTURE WITH 20' BUFFER
- OCCUPIED STRUCTURE WITH 250' BUFFER (N.T.S.)
- WATER/OIL WELL WITH 25 FT BUFFER



P:\PROJECTS\2020\2020-00387\GREEN RIVER SOLAR\DWG\C1.24.DWG

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2

Tab 11

Attachment A

Exhibit 4

Noise Impact Assessment
(48 Pages)



GREEN RIVER SOLAR, LLC. ELECTRIC GENERATION FACILITY

Noise Impact Assessment

Environmental Consulting & Technology, Inc.

Document No.: 10287539-HOU-R-01

Issue: B, **Status:** Final

Date: 24 June 2021





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Project name:	Green River Solar, LLC. Electric Generation Facility	DNV Energy Systems
Report title:	Noise Impact Assessment	DNV Energy USA Inc.
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Project No.:	10287539	
Proposal Reference:	210113-HOU-P-01-B	
Document No.:	10287539-HOU-R-01	
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Task and objective:

This report presents the results of a noise impact assessment conducted by DNV on behalf of Environmental Consulting & Technology, Inc..

Prepared by:	Verified by:	Approved by:
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EXECUTIVE SUMMARY

DNV Energy USA Inc. (“DNV”) has conducted a noise impact assessment for the construction and operation of the Green River Solar, LLC. Electric Generation Facility (the “Project”) located in Meade County and Breckinridge County, Kentucky.

The Project layout consists of a total of 99 solar inverters and a solar energy substation with one step-up transformer. There are no neighboring energy projects near the Project site.

Construction activities were calculated by totaling the sound pressure level of the construction equipment and using the geometric divergence equation to calculate the sound level at the closest receptors. The closest receptors were at a distance of 280 ft from the project equipment. As a result of construction activities sound pressure levels at nearby receptors are expected to be less than 80.0 dBA in the A-weighting scale and 86.7 dB unweighted.

Typical farming equipment such as a tractor can emit sound levels at approximately 80 dBA at 50 ft. The calculated construction sound pressure levels are expected to be similar or lower than typical farming equipment at all receptors. Sound emitted from construction equipment is expected to be comparable in character to internal combustion engine sound associated with farming equipment. Considering farming activity occurs during the day when construction is scheduled, sound emitted by construction equipment should be familiar to what the community currently experiences in the existing sound environment.

A list of receptors located up to 2 miles from the Project were provided to DNV, of which 1,140 (including 28 participants) within 1 mile have been included in this report for the analysis of noise due to operation. The sound pressure level (SPL) at each receptor for the aggregate of all solar inverters and the transformer, were calculated based on the ISO 9613-2 method. Modeled cumulative SPLs range from 26.6 dBA to 50.4 dBA at the receptors calculated in the A-weighting scale. Such a range is generally equivalent to a quiet rural bedroom to a quiet rural outdoor area’s ambient sound level.



1 INTRODUCTION

Environmental Consulting & Technology, Inc. (“ECT” or the “Customer”) requested that DNV Energy USA Inc. (“DNV”) perform a noise impact assessment for construction and operation of the Green River Solar, LLC. Electric Generation Facility (the “Project”) located in Meade County and Breckinridge County, Kentucky.

The duration of the construction period is scheduled to last for at least 1.5 years and includes pile driving for the solar array foundations.

The layout considered for the noise impact operational assessment consists of 99 solar inverters and one step-up transformer at the project substation. The expected power generation nameplate capacity of the Project is 200 MW.

The objective of this assessment is to calculate the expected sound levels generated by machinery during the construction of the Project and to predict the sound levels from the Project’s solar inverters and substation transformer during operation. The construction sound levels were calculated at specified distances using the geometrical divergence equation. The sound levels during operation of the project were calculated at receptors closest to the Project’s sound emitting equipment using the ISO 9613-2 sound propagation model [1].

2 ENVIRONMENTAL SOUND BACKGROUND

Sound levels are expressed in the decibel unit and are quantified on a logarithmic scale to account for the large range of acoustic pressures to which the human ear is exposed. A decibel (dB) is used to quantify sound levels relative to a 0 dB reference. The reference level of 0 dB is defined as a sound pressure level of 20 micropascals (μPa), which is the typical lower threshold of hearing for humans.

Sound levels can be presented both in broadband (sound energy summed across the entire audible frequency spectrum) and in octave band spectra (audible frequency spectrum divided into bands). Frequency is expressed in the Hertz unit (Hz), measuring the cycles per second of the sound pressure waves. The audible range of humans spans from 20 to 20,000 Hz. Since the human ear does not perceive every frequency with equal loudness, spectrally varying sounds are often adjusted with a weighting filter. The A-weighting filter is applied to closely approximate the human ear’s response to sound. This scale is commonly used in environmental and industrial sound. Sound expressed in the A-weighted scale is denoted dBA. Comparative sound pressure levels are shown in Table 2-1 [2].



Table 2-1 Examples of Common A-weighted Sound Levels

Sound Pressure Level [dBA]	Sound Source Example
0-10	Threshold of hearing
10-20	Recording studio background sound
20-40	Quiet bedroom background sound
40-50	Quiet rural
50-60	Quiet urban
60-70	Commercial area, normal conversation at 3 ft
70-80	Tractor at 50 ft
80-90	Diesel truck at 150 ft
90-100	Gas lawn mower at 3 ft
100-110	Car horn at 3 ft

A sound source has a certain sound power level rating which describes the amount of sound energy per unit of time. This is a basic measure of how much acoustical energy it can produce and is independent of its surroundings. Sound pressure is created as sound energy flows away from the source. The measured sound pressure level (SPL) at a given point depends not only on the power rating of the source and the distance between the source and the measurement point (geometric divergence), but also on the amount of sound energy absorbed by environmental elements between the source and the measurement point (attenuation). Sound attenuation factors include meteorological conditions such as wind direction, temperature, and humidity, sound interaction with the ground, atmospheric absorption, terrain effects, diffraction of sound around objects and topographical features, and foliage.

3 APPLICABLE REGULATIONS

The Green River Solar Project is located in Meade County and Breckinridge, Kentucky. No applicable sound regulations relating to solar energy projects were found for these counties or in the state of Kentucky. Although there are no specific noise regulations, some nearby projects have been subject to unweighted decibels limits [3], as requested by the Kentucky Electric Generation and Transmission Siting Board (KYSB). Therefore, the results of this assessment are presented in both the more commonly used A-weighting scale (dBA) as well as unweighted decibels (dB).



4 DESCRIPTION OF THE PROJECT SITE

4.1 Site description

The Project is situated in relatively simple terrain, consisting of flat and occasionally elevated farmland, with project equipment base elevations ranging from approximately 536 feet to 730 feet above sea level. The ground cover on and near the site is primarily composed of crops or open fields. Dwellings are interspersed throughout the Project site.

The Project is located in Meade County and Breckinridge County, near the town of Irvington. A map of the approximate Project area is shown in Figure 4-1.

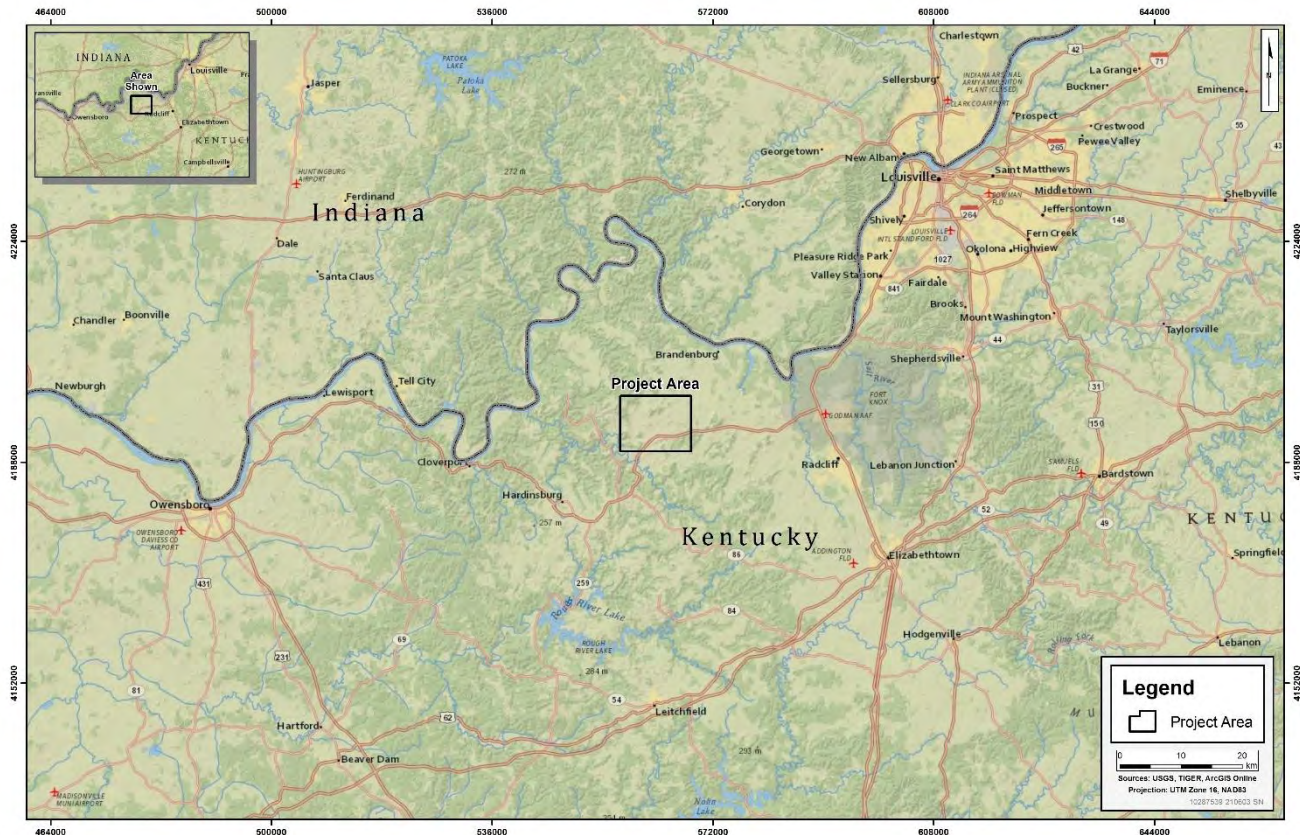


Figure 4-1 Approximate Project area

4.2 Project layout

The Project consists of 99 planned solar inverters located throughout the Project site, as well as one step-up transformer at the substation.

The coordinates of the Project equipment are presented in Appendix B. The solar inverter locations and substation transformer location were provided by the Customer [4].

4.3 Neighboring projects

There are no neighboring operational wind or solar farms near the Project.



4.4 Receptor locations

A list of receptors located within 2 miles of the Project was provided by the Customer [5]. The receptor list has not been reviewed in detail by DNV. Of these receptors, DNV has included a total of 1,140 total receptors (including 28 participants) within 1 mile of a solar inverter or transformer in this analysis. All provided receptors are confirmed by the Customer as being occupied residences. Coordinates of each receptor point are presented in Appendix B.

All receptors have been modeled at a height of 5 ft (1.5 m) above ground level and represent one story residential structures.



5 SOUND ASSESSMENT OF PROJECT CONSTRUCTION

5.1 Description of the sound sources

The sources of sound considered in this analysis include the construction equipment specified by phase. The equipment list was provided by the Customer [6] and source noise levels were referenced from the Federal Highway Administration Construction Noise Handbook [7].

The source noise levels were specified as maximum sound pressure levels at 50 feet. A usage factor has been applied to calculate the equivalent energy average sound levels (L_{eq}) using the maximum sound pressure levels (L_{max}). The L_{eq} is a commonly used metric to specify energy averaged sound levels over time whereas the L_{max} is an instantaneous sound level. Usage factor is defined as the time-averaging equipment usage factor, expressed in percent [7]. It is intended to reflect the percentage of time during a construction activity where the specified equipment is operating at full capacity. The frequency spectra assumed for the equipment were referenced from the UK Department for Environment construction noise prediction document [8] and are shown in Appendix C. A summary of the source levels of the construction equipment for the loudest identified construction phases are shown in Table 5-1.

Table 5-1 Construction equipment sound sources

Phase	Equipment	Quantity	L_{max} at 50 ft [dBA]		Usage Factor [%]	Calculated L_{eq} at 50 ft	
			Individual	Total		dBA	dB
Demolition/Site Preparation	Grader	2	85.0	88.0	40	84.0	90.0
	Dump Truck	4	84.0	90.0	40	86.0	93.8
	Water Truck	1	85.0	85.0	50	82.0	87.1
	Generator	4	82.0	88.0	50	85.0	90.3
	Semi-trailer	1	84.0	84.0	40	80.0	84.1
Pile Driving	Pile Driver	4	95.0	101.0	20	94.0	101.1
	Water Truck	1	85.0	85.0	50	82.0	87.1
	Generator	4	82.0	88.0	50	85.0	90.3
	Semi-trailer	1	84.0	84.0	40	80.0	84.1
Foundation Installation	Concrete Truck	2	85.0	88.0	40	84.0	89.0
	Water Truck	1	85.0	85.0	50	82.0	87.1
	Generator	4	82.0	88.0	50	85.0	90.3
	Semi-trailer	1	84.0	84.0	40	80.0	84.1

5.2 Assessment Methodology

Sound pressure levels were calculated using the source sound levels and usage factors in Table 5-1 for varying distances using the geometrical divergence equation below.

$$SPL_{d1} = SPL_{ref} - 20 \log_{10} \frac{d_1}{d_{ref}}$$

Where:

SPL_{equip} is the equipment sound pressure level at the distance d_1

SPL_{ref} is the reference sound pressure level at the reference distance, d_{ref} equal to 50 feet

The resulting sound levels at each specified distance were added logarithmically to represent the total sound pressure level. The approach of determining sound pressure levels at specified distances from the construction activities was used as the



construction equipment is spread out over a large area therefore any fixed equipment layout would inherently be inaccurate due to the mobile nature of the sound sources.

This approach is conservative in nature as it assumes all equipment is operating at the same time and from the same source location. Practically, construction equipment will be spread out around the project site and not likely to be operating simultaneously. As a result, on-site measurements are expected to be lower than the calculation results presented in Section 5.3.

Sound pressure levels were calculated in decibels using the A-weighting scale (dBA) as this scale is commonly utilized to represent the frequency sensitivities of a healthy human ear. The A-weighting scale discounts low and high frequencies and results in lower broadband sound levels than the unweighted scale during measurement of construction noise sources. In addition to the A-weighting scale, sound pressure levels were calculated in the unweighted decibel scale (dB) to allow for comparison of any sound levels presented in this weighting scale.

5.3 Results

The resulting sound pressure levels at varying distances from the construction equipment are shown in Table 5-2. The 50-ft distance was chosen for consistency with the sound levels referenced in Table 5-1 and is also the County setback applicable between Project infrastructure and non-participating properties [9]. The 280-ft distance represents the distance of the closest structure to the site boundary and the 1000-ft distance is shown to demonstrate the effect of sound propagation at greater distances.

Table 5-2 Calculated sound levels from construction equipment

Phase	A-weighted [dBA]			Unweighted [dB]		
	50	280	1000	50	280	1000
Demolition and Site Preparation	90.9	75.9	64.9	97.2	82.2	71.2
Pile Driving	94.9	80.0	68.9	101.7	86.7	75.7
Foundation Installation	89.2	74.2	63.2	94.2	79.2	68.2

The closest structure is located at least 280 ft from the project property boundary therefore, sound pressure levels at nearby receptors due to construction activities are expected to be less than 80.0 dBA in the A-weighting scale and 86.7 dB unweighted. It is important to note that this analysis assumes the construction equipment associated with each phase is operating simultaneously at the specified distance. This assumption is conservative as the equipment will likely be more spread out around the site and not likely to be operating at the same time. Other noise attenuation effects such as atmospheric absorption, ground effect, reflection and shielding by topographical features or objects were not considered in the analysis. Measured sound pressure levels during construction activities are expected to be lower than those shown in Table 5-2.

Typical farming equipment such as a tractor can emit sound levels at approximately 80 dBA at 50 ft as shown in Table 2-1. The calculated construction sound pressure levels are expected to be similar or lower than typical farming equipment at most receptors. Sound emitted from construction equipment is expected to be comparable in character to internal combustion engine sound associated with farming equipment. Considering farming activity occurs during the day when construction is scheduled, sound emitted by construction equipment should be familiar to what the community currently



experiences in the existing sound environment. Due to the conservative nature of the assessment, it is expected that sound levels will be less than the referenced tractor sound level at 50 ft.

5.4 Additional Recommendations

To ensure that the noise impact during construction activities are minimized, the following best practice recommendations may be followed to the extent practicable:

1. Keep all equipment in good repair with all worn, loose and unbalanced machine parts to be replaced. Machine parts should be kept well lubricated to reduce friction.
2. Unnecessary idling of internal combustion engines should be avoided when practicable.
3. Utilize newer models of construction equipment where possible to provide the quietest performance.
4. Internal combustion engines are to be fitted with a suitable muffler in good repair.
5. Locate stationary noise-generating equipment such as air compressors or portable power generators as far as practicable from neighboring houses.
6. Develop a construction and traffic management plan which includes informing the local community of the construction schedule and activities to minimize impacts.
7. Construction to be scheduled during daytime hours as defined by local regulations.
8. Provide and make available contact information for concerns regarding construction activities prior to and during construction.
9. All vehicular movements to and from the site must only be made during the scheduled normal working hours. This includes off-site noise that is associated with a specific project such as staging of concrete trucks.
10. Vehicle speeds on access roads should be limited to 25 mph (40 km/hr).



6 SOUND ASSESSMENT OF PROJECT OPERATION

6.1 Description of the sound sources

The sources of sound considered in this analysis are the solar inverters and substation transformer. Sound associated with other sources in the vicinity of the Project, such as construction activities, have not been considered in this section. The smaller transformers associated with each inverter were not included in the analysis as the sound source data showed their contribution to have a negligible impact on overall sound pressure levels.

6.1.1 Solar Inverters

The proposed inverter is a Power Electronics HEM FS3350, or similar, with a maximum permissible voltage of 1,500 Vdc. Sound power levels were calculated according to ISO standard 3744:2010 [10], based on a rated sound pressure level of 79 dBA at 1 meter [11]. The spectrum used for the solar inverter was based on octave band sound levels of similar equipment from DNV's internal database. The octave band sound power levels used for the solar inverter are shown in Table 6-1.

Table 6-1 Solar Inverter equipment sound power levels

Equipment	Frequency [Hz]									Total
	31.5	63	125	250	500	1000	2000	4000	8000	
Power Electronics HEM FS3350	86.1	86.1	87.5	95.3	95.3	89.9	82.4	72.7	72.7	99.7

6.1.2 Substation transformer

There is one transformer planned at the Project substation. While the final equipment has not been procured for the Project, the client has provided a conservative transformer rating for use in this report. The proposed transformer is rated at 230 MVA with a voltage of 161 kV on the high voltage side.

A total broadband sound power level of 104.4 dBA was estimated according to IEEE standard C57.12.90-2015 [12], based on an audible sound level of 75 dBA each and transformer dimensions, both provided by the Customer [13]. A tonality penalty of 5 dB is included in this value in accordance with ISO-1996-2 [14].

A typical transformer octave band distribution [15] was used. The octave band sound power levels of the Project transformer are shown in Table 6-2.

Table 6-2 Transformer sound power levels [dBA]

Equipment	Frequency [Hz]									Total
	31.5	63	125	250	500	1000	2000	4000	8000	
Main Transformer	61.6	80.8	92.9	95.4	100.8	98.0	94.2	89.0	79.9	104.4

6.2 Assessment methodology

The sound pressure level at each receptor for the aggregate of all solar inverters and the main transformer associated with the Project were calculated using CadnaA acoustic modeling software based on the ISO 9613-2 method [1]. The simulation was performed using the maximum sound power level of the solar inverters and transformer. Based on the physical dimensions provided, the solar inverters were modeled at a height of 2.2 m (7.2 ft) above ground level (agl) and the substation transformer was modeled at a height of 5.5 m (18.0 ft) agl.

The receptors were modeled at a height of 1.5 m (4.9 ft) agl to represent single story dwellings.



The ISO 9613-2 standard provides a prediction of the equivalent continuous SPL at a distance from one or more point sources. The method consists of octave-band algorithms (i.e., with nominal mid band frequencies from 31.5 Hz to 8 kHz) for calculating the attenuation of the emitted sound. The algorithm takes into account the following physical effects:

- Geometrical divergence – attenuation due to spherical spreading from the sound source
- Atmospheric absorption – attenuation due to absorption by the atmosphere
- Ground absorption – attenuation due to the acoustical properties of the ground

The ISO 9613-2 standard calculates attenuation “under meteorological conditions favorable to propagation from sources of sound emission.” These meteorological conditions are for “downwind propagation or, equivalently, propagation under a well-developed moderate ground-based temperature inversion, such as commonly occurs at night”. In other words, though a physical impracticality, the ISO 9613-2 standard treats every receptor as being downwind from every source of sound emission (in this case, inverters and the transformer).

The ISO 9613-2 standard accounts for ground absorption by assigning a numerical coefficient (G) with a value ranging from 0 to 1. A value of $G = 0$ represents hard ground (paving, water, ice, concrete, tamped ground, and other ground surfaces with a low porosity), while a $G = 1$ value represents porous ground (ground covered by grass, trees, or other vegetation, and other ground surfaces suitable for the growth of vegetation such as farming land). Though the ground use on and around the site is farming, a mixed (semi-reflective) global ground factor of $G = 0.5$ was used in this assessment.

Additionally, temperature, barometric pressure, and humidity parameters were selected to represent typical local annual averages, and topographical information to accurately represent terrain in three-dimensions was included in this assessment.

Specifically, the ISO 9613-2 parameters were set as follows:

- Ambient air temperature: 50° F (10° C)¹
- Ambient barometric pressure: 101.32 kPa
- Humidity: 70%
- Overall ground factor: 0.5
- Topography included (5 m elevation intervals)

Additional attenuation from foliage was not considered in this assessment, implying that lower sound levels are expected in areas where there is foliage present in the line of sight between any Project components and a sound receptor. Similarly, because the model assumes every receptor is downwind of every sound source at all times, lower sound levels are expected at times when a receptor is upwind of any sound source.

¹ Average temperatures are expected to be higher than 50° F however, this temperature was used conservatively to represent the project area.



6.3 Results

Detailed maps illustrating predicted sound pressure levels at receptors located in the vicinity of the Project are presented in Figure 6-1 to Figure 6-6.

The predicted sound levels at each of the 1,140 receptors are presented in Appendix B.

For each receptor, the following information is provided:

- ID
- Participant status
- Coordinates in UTM projection and NAD83 Datum
- Closest noise generating equipment
- Distance to the closest noise generating equipment
- Sound pressure levels (SPL) in dBA and dB at the receptor location

The highest modelled results throughout the Project area for A-weighted sound pressure levels and unweighted sound pressure levels respectively are 50.4 dBA and 80.7 dB at receptor 1102. This can be considered equivalent to a noise levels in a quiet rural environment (see Table 2-1).

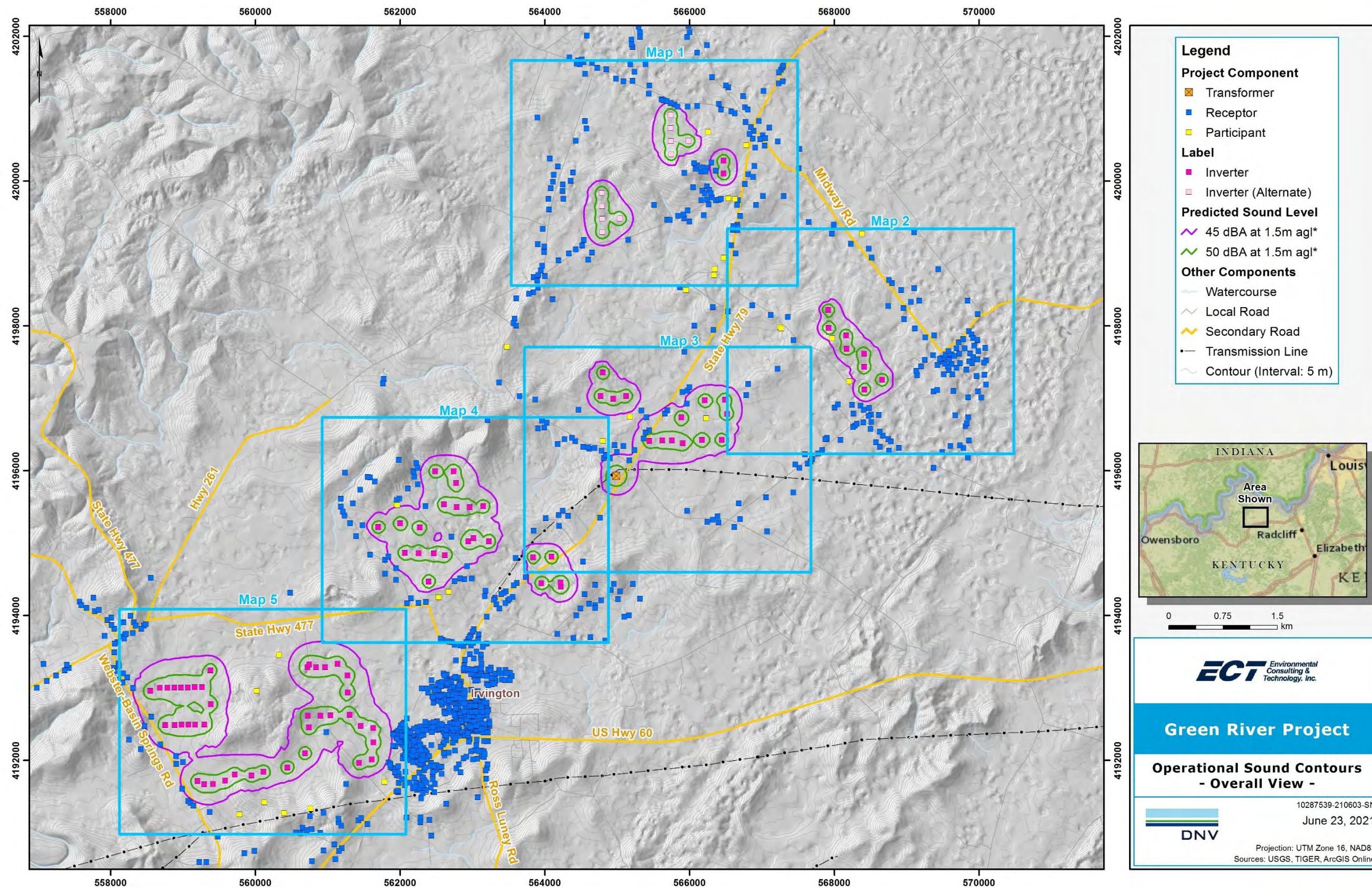


Figure 6-1 Key map of modeled sound pressure levels within the Project area

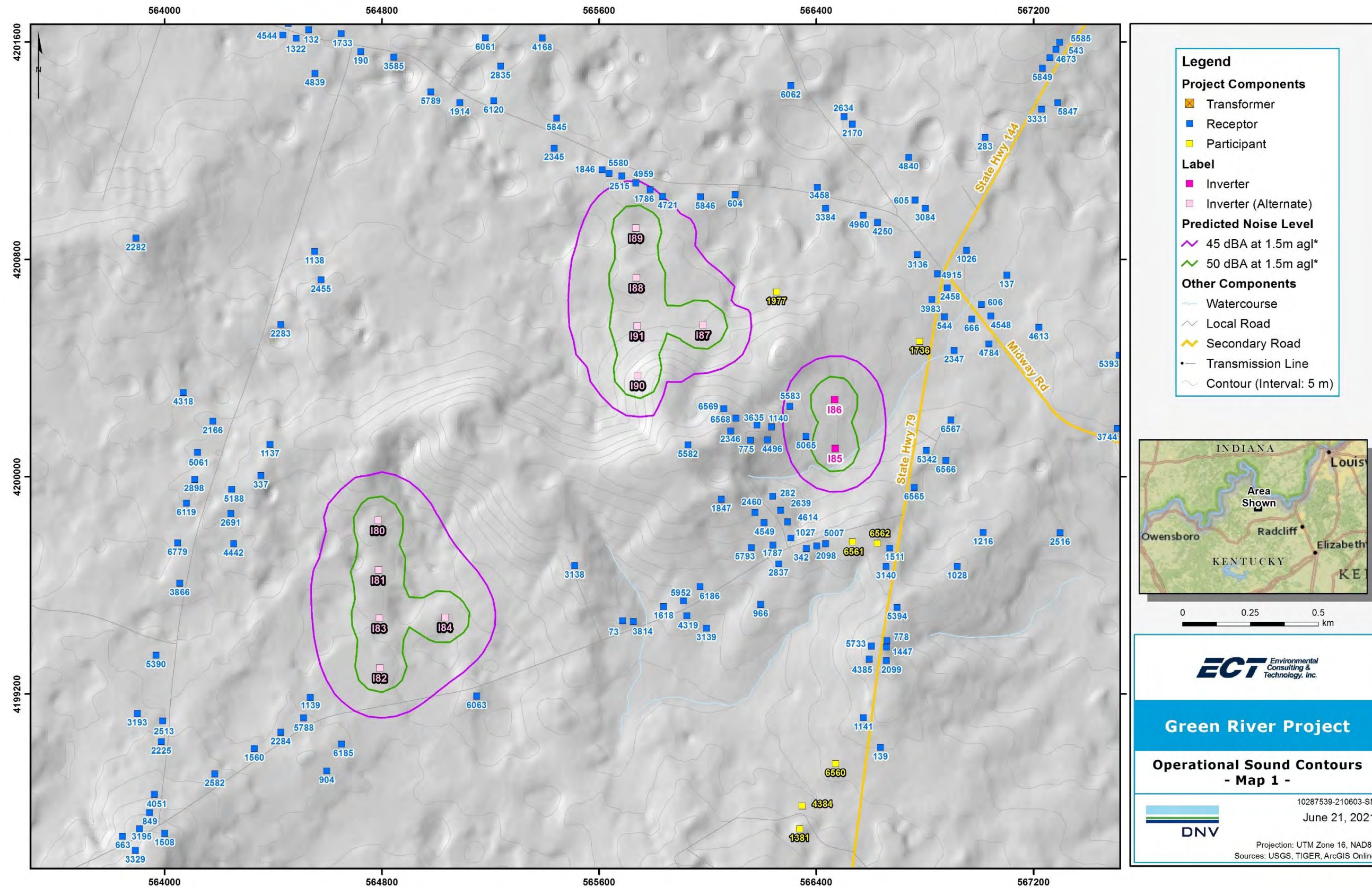


Figure 6-2 Modeled sound pressure levels within the Project area (1 of 5)

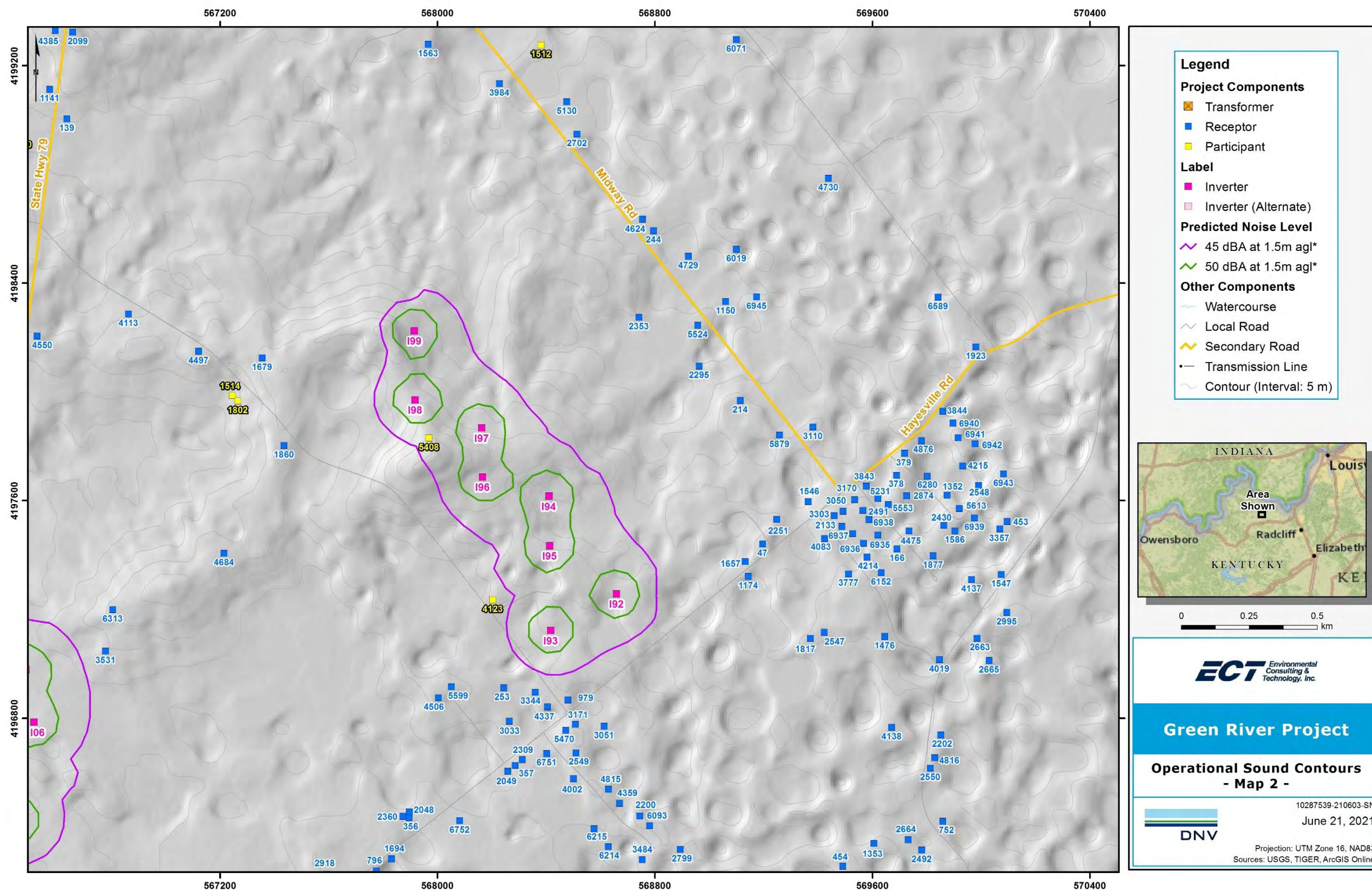


Figure 6-3 Modeled sound pressure levels within the Project area (2 of 5)

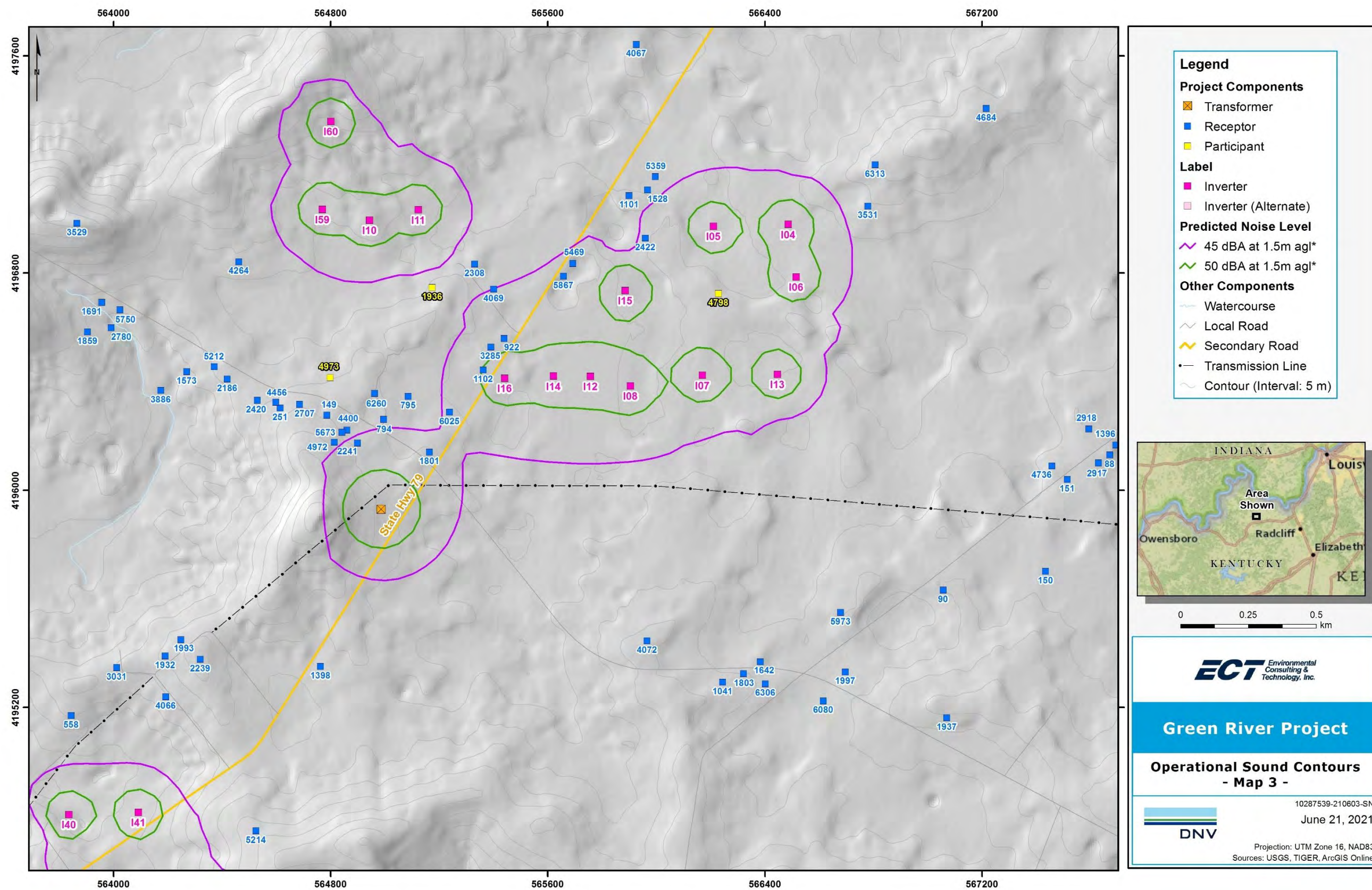


Figure 6-4 Modeled sound pressure levels within the Project area (3 of 5)

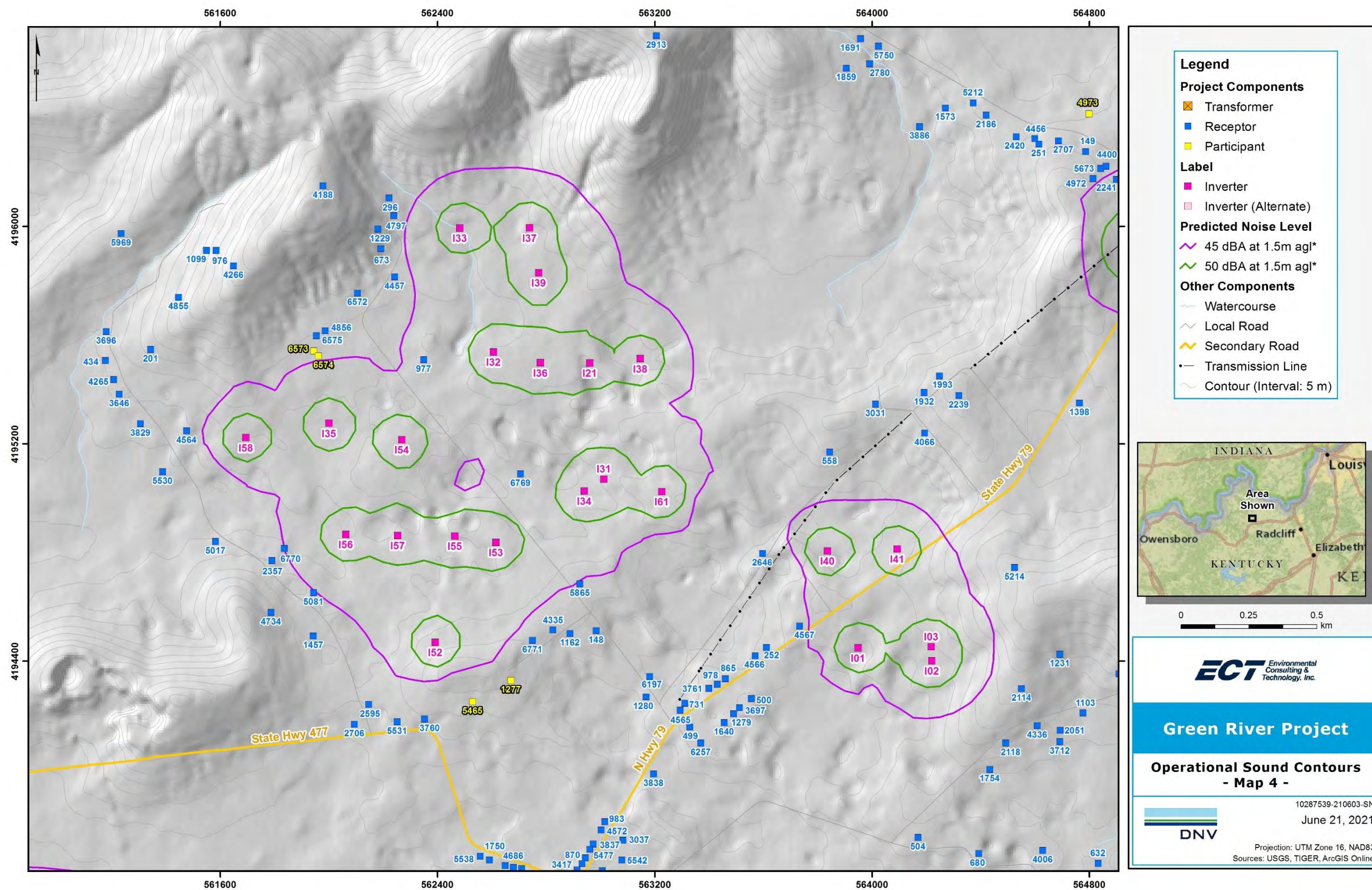


Figure 6-5 Modeled sound pressure levels within the Project area (4 of 5)

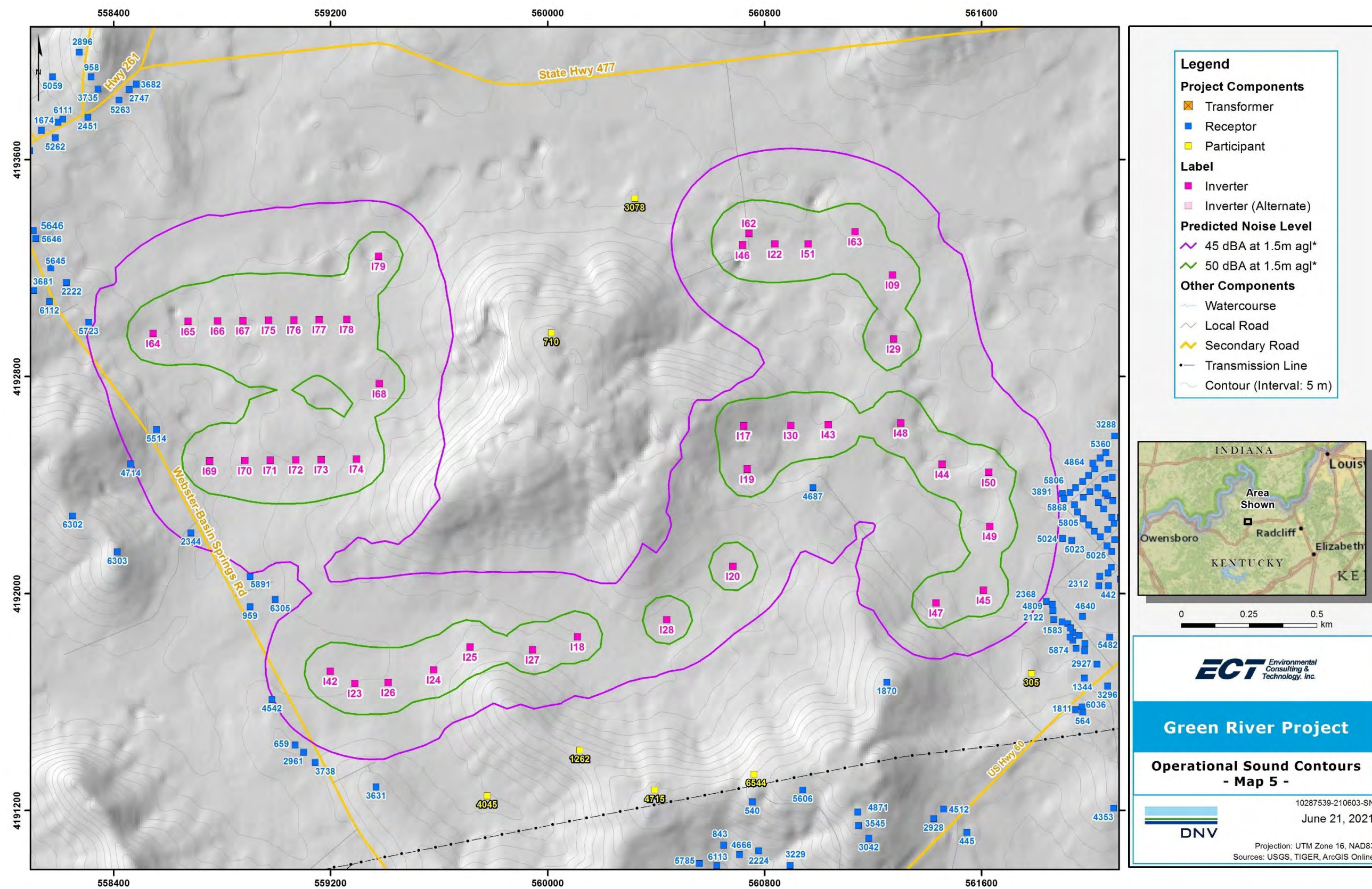


Figure 6-6 Modeled sound pressure levels within the Project area (5 of 5)



7 CONCLUSION

DNV has conducted a noise impact assessment to determine the maximum predicted sound levels at receptors in the vicinity of the Green River Solar, LLC. Electric Generation Facility located in Meade County and Breckinridge County, Kentucky. The Project equipment considered in the analysis were 99 solar inverters and one step-up transformer within the Project substation.

As a result of construction activities sound pressure levels at nearby receptors are expected to be less than 80.0 dBA in the A-weighting scale and 86.7 dB unweighted.

Typical farming equipment such as a tractor can emit sound levels at approximately 80 dBA at 50 ft as shown in Table 2-1. The calculated construction sound pressure levels are expected to be similar or less than typical farming equipment at most receptors. Sound emitted from construction equipment is expected to be comparable in character to internal combustion engine sound associated with farming equipment. Considering farming activity occurs during the day when construction is scheduled, sound emitted by construction equipment should be familiar to what the community currently experiences in the existing sound environment.

Modeled cumulative sound pressure levels at the receptors for project operation range from 26.6 dBA to 50.4 dBA at the receptors calculated in the A-weighting scale and from 59.6 dB to 80.7 dB unweighted. This range is approximately equivalent to sound levels ranging from a quiet rural bedroom to a quiet rural outdoor area.

The assumptions made in both the construction and operation assessment methodology can be considered conservative as actual measured sound levels from the Project's activities are expected to be generally lower.



8 REFERENCES

- [1] International Organization for Standardization. *ISO 9613-2: Acoustics – Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation*. 15 December 1996.
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- [3] Information regarding regulations for similar projects sent by email, by ECT to DNV on 23 December 2020.
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- [5] Receptor locations sent by email, by ECT to DNV on 16 June 2021, “*Receptors20210616.zip*”
- [6] Construction equipment sent by email, by ECT to DNV on 18 May 2021.
- [7] U.S. Department of Transportation Federal Highway Administration. *Construction Noise Handbook. August 2006*.
- [8] U.K. Department for Environment, Food and Rural Affairs. *Update of Noise Database for Prediction of Noise on Construction and Open Sites. 2005*.
- [9] Meade County Fiscal Court. Ordinance: 2021-005. 11 May 2021.
- [10] International Organization for Standardization. *ISO 3744:2010: Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane*. October 2010.
- [11] Inverter sound pressure level sent by email, by ECT to DNV on 17 March 2021,
“*Datasheet_HEM3350M_630V_20181002.pdf*”
- [12] C57.12.90-2015 IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers. 11 March 2016.
- [13] Transformer dimensions sent by email, by ECT to DNV on 20 March 2021, “*ATL0368-A01-A1-R03.pdf*”
- [14] International Organization for Standardization. *ISO 1996-2: Acoustics – Description, measurement and assessment of environmental noise -Part 2: Determination of sound pressure levels*. July 2017
- [15] *Handbook of Acoustics*. Edited by Malcolm J. Crocker. John Wiley & Sons. 1998.



APPENDIX A –SOUND SOURCE LOCATIONS



ID	Description	UTM Zone 14, NAD 83 Datum	
		Easting [m]	Northing [m]
I01	Power Electronics HEM3350M Inverter	563948	4194448
I02		564219	4194401
I03		564217	4194452
I04		566486	4196978
I05		566210	4196972
I06		566516	4196785
I07		566170	4196423
I08		565905	4196384
I09		561272	4193174
I10		564943	4196994
I11		565123	4197032
I12		565757	4196419
I13		566446	4196426
I14		565621	4196420
I15		565885	4196735
I16		565441	4196412
I17		560723	4192618
I18		560110	4191840
I19		560736	4192458
I20		560683	4192100
I21		562961	4195497
I22		560838	4193288
I23		559289	4191668
I24		559579	4191718
I25		559714	4191802
I26		559412	4191671
I27		559945	4191792
I28		560440	4191903
I29		561275	4192938
I30		560897	4192619
I31		563013	4195069
I32		562606	4195538
I33		562483	4195994
I34		562941	4195026
I35		562000	4195275
I36		562779	4195498
I37	562739	4195994	
I38	563147	4195513	
I39	562773	4195829	
I40	563836	4194805	
I41	564092	4194813	
I42	559199	4191713	
I43	561035	4192622	
I44	561455	4192476	
I45	561607	4192012	
I46	560718	4193284	
I47	561432	4191965	
I48	561302	4192628	
I49	561630	4192247	
I50	561626	4192446	
I51	560961	4193288	
I52	562392	4194469	
I53	562616	4194836	
I54	562268	4195215	
I55	562464	4194860	
I56	562062	4194866	
I57	562254	4194862	

ID	Description	UTM Zone 14, NAD 83 Datum		
		Easting [m]	Northing [m]	
I58	Power Electronics HEM3350M Inverter	561695	4195222	
I59		564770	4197034	
I60		564801	4197358	
I61		563226	4195024	
I62		560742	4193327	
I63		561134	4193333	
I64		558545	4192959	
I65		558675	4193003	
I66		558783	4193004	
I67		558877	4193005	
I68		559380	4192773	
I69		558754	4192488	
I70		558884	4192489	
I71		558978	4192491	
I72		559072	4192492	
I73		559165	4192493	
I74		559295	4192495	
I75		558971	4193007	
I76		559065	4193008	
I77		559159	4193009	
I78		559260	4193010	
I79		559377	4193243	
I80		564785	4199839	
I81		564788	4199656	
I82		564792	4199296	
I83		564790	4199478	
I84		565034	4199482	
I85		566470	4200103	
I86		566467	4200283	
I87		565983	4200557	
I88		565738	4200732	
I89		565735	4200914	
I90		Power Electronics HEM3350M Inverter	565742	4200371
I91			565740	4200554
I92			568658	4197257
I93			568417	4197122
I94	568410		4197616	
I95	568413		4197433	
I96	568166		4197687	
I97	568163		4197867	
I98	567918		4197970	
I99	567915		4198224	
T1	Solar substation transformer	564986	4195929	

Transformer and inverter IDs have been arbitrarily added for the purpose of this report.



APPENDIX B – RECEPTOR LOCATIONS AND ASSOCIATED OPERATIONAL SOUND LEVELS

Participant Receptors

Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
305	561783	4191704	I45	1161	41.1	73.0
623	563474	4197711	I60	4505	32.0	64.9
710	560014	4192960	I68	2169	40.0	72.1
1262	560118	4191422	I27	1339	42.0	74.1
1277	562671	4194329	I52	1024	40.7	73.3
1381	566339	4198703	I85	4613	33.4	66.5
1512	568381	4199275	I99	3773	32.2	65.3
1514	567245	4197986	I98	2208	34.7	67.9
1562	565950	4198495	I84	4419	35.3	68.6
1736	566781	4200497	I86	1243	39.4	71.3
1802	567266	4197966	I98	2139	34.8	68.0
1936	565174	4196746	I11	955	44.0	75.6
1977	566253	4200679	I87	971	42.1	74.0
3078	560322	4193456	I46	1417	42.1	74.3
4045	559777	4191254	I24	1654	37.6	70.1
4123	568204	4197234	I93	791	43.5	74.8
4384	566348	4198787	I85	4337	33.4	66.5
4715	560395	4191274	I28	2067	40.1	72.7
4798	566229	4196724	I05	817	47.0	78.6
4973	564798	4196414	T1	1706	41.8	71.8
5408	567968	4197829	I98	489	47.4	78.3
5465	562529	4194251	I52	846	39.4	72.4
6544	560761	4191333	I28	2146	39.5	72.3
6560	566471	4198942	I85	3809	33.3	66.3
6561	566533	4199760	I85	1145	36.9	68.4
6562	566624	4199755	I85	1250	36.4	68.0
6573	561944	4195542	I35	896	44.4	76.4
6574	561962	4195523	I35	823	44.7	76.7

All provided receptors have been confirmed as occupied by ECT.



Non-Participant Receptors

Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
15	563580	4198100	I60	4685	30.8	64.3
35	562065	4192236	I49	1427	41.9	74.2
36	562632	4192901	I50	3619	37.5	70.9
38	562802	4192603	I50	3891	36.5	70.0
39	562832	4193071	I50	4455	35.4	68.7
47	569196	4197441	I92	1864	38.1	70.7
73	565686	4199469	I84	2142	35.2	67.5
88	567670	4196129	I93	4075	35.0	68.2
90	567056	4195632	I13	3284	34.8	67.9
92	562688	4193065	I50	4032	36.4	69.7
93	562959	4192289	I49	4360	32.7	65.8
94	562988	4192402	I50	4472	32.9	66.0
95	562331	4191863	I45	2428	36.7	69.4
132	564531	4201644	I89	4619	31.1	64.5
137	567102	4200741	I86	2566	34.3	67.0
139	566637	4199003	I85	3652	32.3	65.5
148	562984	4194511	I53	1614	40.7	72.7
149	564786	4196275	T1	1312	43.1	72.5
150	567433	4195701	I13	4019	33.9	67.2
151	567514	4196039	I13	3727	35.3	68.5
153	562745	4193135	I50	4311	36.1	69.4
154	563125	4192459	I50	4915	32.6	65.9
155	562768	4192632	I50	3796	36.6	70.0
158	562281	4191213	I45	3428	32.8	65.7
166	569689	4197422	I92	3425	31.3	64.3
190	564722	4201564	I89	3947	31.7	64.9
201	561344	4195547	I58	1568	38.7	71.3
203	564909	4194353	I02	2267	34.3	67.1
205	562234	4192235	I49	1982	40.0	72.6
206	563030	4192501	I50	4610	33.3	66.6
207	563014	4192748	I50	4659	33.9	67.3
209	563200	4191895	I45	5243	33.8	67.8
214	569114	4197968	I94	2582	36.2	68.8
244	568795	4198592	I99	3130	32.6	64.9
251	564614	4196303	T1	1729	39.3	71.2
252	563611	4194450	I01	1109	40.2	71.9
253	568244	4196911	I93	896	41.2	72.7
254	565008	4194224	I02	2651	33.4	66.2
255	562642	4193176	I50	4104	36.3	69.5
256	563039	4192417	I50	4633	32.8	65.9
257	563229	4192540	I50	5266	34.2	68.0
258	562197	4191756	I45	2110	37.6	70.2
259	561917	4191888	I45	1096	41.6	73.5
279	564508	4201681	I89	4744	30.9	64.3
282	566239	4199927	I85	951	41.1	73.0
283	567021	4201248	I86	3648	33.7	66.9
296	562221	4196104	I33	932	42.9	75.0
301	562323	4192171	I49	2287	39.0	71.8
302	562611	4192679	I50	3320	37.3	70.6
304	562739	4192528	I50	3658	36.1	69.5
306	562211	4192021	I45	1985	39.2	71.8
337	564354	4200004	I80	1512	37.8	69.9
342	566363	4199735	I85	1257	37.5	69.4
356	567896	4196434	I93	2831	35.7	68.7
357	568285	4196626	I93	1683	37.3	69.6
359	565215	4194437	I02	3271	31.7	65.2
361	562508	4192539	I50	2907	37.8	70.9
362	562930	4192353	I49	4278	32.9	66.0



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
363	563127	4192828	I50	5079	33.7	67.1
364	563400	4193115	I01	4731	33.7	66.9
366	562174	4191613	I45	2277	37.7	70.6
367	562111	4192052	I45	1660	40.3	72.8
368	562299	4192148	I49	2218	39.2	72.0
378	569689	4197692	I92	3671	31.9	64.9
379	569718	4197774	I92	3868	32.1	65.3
434	561178	4195506	I58	1936	35.7	68.4
436	562437	4193019	I50	3255	38.2	71.4
438	562774	4192393	I50	3770	34.1	67.2
439	562448	4191784	I45	2861	36.4	69.5
440	562346	4191898	I45	2454	36.8	69.5
442	562067	4192028	I45	1509	40.8	73.1
443	562611	4192068	I49	3271	35.2	68.2
445	561545	4191119	I47	2802	33.9	66.9
453	570095	4197523	I92	4793	27.7	60.7
454	569491	4196255	I92	4272	31.4	64.8
499	563328	4194157	I01	2247	37.8	70.3
500	563555	4194261	I01	1427	40.7	73.0
503	562647	4192794	I50	3537	37.1	70.4
504	564169	4193750	I02	2142	35.5	68.0
506	562273	4192124	I49	2146	39.4	72.2
540	560754	4191231	I28	2431	36.1	68.5
543	567260	4201542	I86	4879	31.5	65.1
544	566872	4200587	I86	1660	37.4	69.6
558	563844	4195169	I40	1198	42.5	74.7
559	562516	4193006	I50	3448	37.8	71.1
561	563194	4192760	I50	5246	33.6	67.1
562	562914	4192793	I50	4373	34.1	67.4
564	561973	4191562	I45	1903	39.2	72.0
565	562218	4191688	I45	2267	37.2	69.9
566	562340	4192137	I49	2356	38.8	71.7
569	562756	4192135	I49	3714	33.9	67.0
604	566101	4201038	I89	1266	41.4	73.3
605	566764	4201017	I86	2595	35.3	67.9
606	567009	4200633	I86	2113	35.7	68.1
626	562594	4192216	I49	3163	35.3	68.2
630	562369	4192101	I49	2470	37.5	70.3
631	562875	4192028	I49	4147	33.7	67.0
632	564832	4193655	I02	3169	32.4	65.2
659	559069	4191440	I42	991	44.1	76.0
660	559322	4190594	I23	3527	35.3	68.5
661	559219	4190594	I23	3530	35.6	68.9
662	565901	4202269	I89	4478	28.3	61.3
663	563844	4198676	I82	3714	31.5	64.7
666	566973	4200580	I86	1923	36.4	68.7
673	562191	4195918	I33	988	43.5	75.7
677	561946	4192389	I50	1066	43.7	75.7
678	562691	4192443	I50	3494	35.8	69.1
680	564392	4193692	I02	2395	34.4	66.9
681	563213	4192264	I49	5194	32.6	66.0
707	557776	4194062	I64	4409	32.0	65.0
709	557419	4193272	I64	3835	29.9	64.3
731	563310	4194244	I01	2198	38.2	70.5
736	562277	4192222	I49	2123	39.5	72.3
737	562321	4192354	I49	2293	39.3	72.1
738	562723	4192455	I50	3599	35.7	69.0
740	563122	4192437	I50	4908	32.6	65.9
741	562891	4192622	I50	4190	34.6	68.0
742	562774	4192799	I50	3940	36.8	70.3



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
744	563263	4193053	I01	5102	33.9	67.2
745	562195	4192120	I49	1900	40.1	72.7
747	565161	4194005	I02	3350	32.4	65.2
752	569858	4196421	I92	4797	27.4	60.4
775	566157	4200133	I85	1030	41.7	73.7
778	566660	4199396	I85	2402	33.7	66.2
794	564995	4196261	T1	1089	44.5	73.3
795	565086	4196345	I16	1188	43.9	73.9
796	567774	4196238	I93	3586	34.0	66.9
799	562278	4192412	I50	2139	39.6	72.4
800	562948	4192254	I49	4324	32.7	65.8
801	562798	4192489	I50	3845	35.1	68.5
802	562812	4192686	I50	3970	35.8	69.2
843	560648	4191071	I28	2812	32.2	66.7
847	565985	4202145	I89	4121	31.4	64.8
849	563944	4198763	I82	3287	34.4	67.6
865	563459	4194335	I01	1647	40.3	72.6
869	563486	4193200	I01	4367	33.7	66.9
870	562945	4193675	I52	3176	35.9	68.8
871	562133	4191693	I45	2021	38.2	70.9
872	561190	4190789	I47	3937	31.8	65.7
904	564597	4198917	I82	1398	39.7	72.0
922	565439	4196559	I16	482	47.8	78.8
925	562213	4192267	I49	1913	40.2	72.8
927	563142	4192442	I50	4974	32.5	65.8
928	563074	4192482	I50	4751	32.9	66.1
930	562634	4191402	I45	3921	35.2	69.0
933	565096	4193984	I02	3186	32.6	65.4
958	558317	4193904	I65	3182	38.3	71.5
959	558903	4191951	I42	1243	44.4	76.5
966	566195	4199529	I85	2087	34.2	66.7
976	561585	4195911	I58	2290	34.0	68.1
977	562349	4195509	I32	846	46.1	77.9
978	563430	4194314	I01	1755	40.0	72.4
979	568480	4196866	I93	863	39.1	70.1
982	562246	4192196	I49	2028	39.8	72.5
983	563016	4193808	I52	2982	36.5	69.4
984	561936	4191827	I45	1237	40.8	72.8
985	561897	4191894	I45	1027	42.1	74.0
986	562668	4192107	I49	3435	34.8	67.8
1014	556978	4193002	I64	5144	28.7	62.9
1017	565294	4202132	I89	4249	30.4	63.7
1018	566238	4201879	I89	3570	32.8	66.0
1023	563603	4198004	I60	4465	31.8	64.8
1026	566954	4200833	I86	2408	35.5	68.2
1027	566306	4199774	I85	1207	39.5	71.5
1028	566919	4199670	I85	2047	34.9	67.4
1041	566244	4195292	I07	3717	34.3	67.0
1042	563365	4193250	I01	4370	34.4	67.7
1045	562841	4192598	I50	4016	35.4	68.8
1048	563446	4193109	I01	4692	33.6	66.9
1049	562502	4191933	I45	2949	35.5	68.4
1050	562318	4192113	I49	2297	39.0	71.8
1083	559478	4190943	I26	2398	35.7	68.0
1099	561549	4195912	I58	2313	33.8	68.0
1101	565899	4197085	I05	1086	43.9	75.9
1102	565362	4196442	I16	279	50.4	80.7
1103	564776	4194208	I02	1932	33.9	67.2
1106	562818	4192425	I50	3911	34.0	67.1
1108	563121	4192550	I50	4915	34.5	68.2



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
1109	562855	4192555	I50	4049	34.7	68.1
1110	563196	4193060	I01	5177	34.0	67.2
1133	557662	4194102	I64	4738	31.2	64.3
1137	564388	4200118	I80	1591	36.8	68.9
1138	564553	4200828	I80	3333	31.6	64.4
1139	564537	4199187	I82	912	42.8	74.6
1140	566236	4200182	I85	810	43.8	75.3
1141	566573	4199112	I85	3268	33.0	65.8
1150	569060	4198331	I94	3169	34.1	66.8
1162	562888	4194501	I53	1417	41.5	73.7
1165	562764	4192584	I50	3760	36.5	69.9
1166	562496	4191880	I45	2953	35.7	68.6
1174	569143	4197321	I92	1604	38.6	70.9
1216	567014	4199794	I85	2054	34.9	67.4
1229	562181	4195990	I33	991	43.2	75.4
1231	564691	4194425	I02	1552	34.7	68.3
1236	562710	4193636	I52	2927	35.6	68.4
1237	562668	4192859	I50	3678	37.3	70.8
1238	562527	4192987	I50	3445	37.8	71.1
1239	563091	4192465	I50	4806	32.7	66.0
1240	562761	4192948	I50	4068	35.4	68.7
1241	563072	4192956	I50	5030	34.0	67.3
1263	565523	4202455	I89	5102	26.6	59.6
1279	563490	4194206	I01	1699	39.9	72.4
1280	563168	4194268	I61	2490	38.2	70.4
1283	562596	4193201	I50	4032	36.4	69.5
1285	563046	4193173	I52	4764	34.4	67.6
1287	562748	4193598	I52	3087	35.3	68.0
1288	562997	4192496	I50	4498	33.4	66.7
1290	563100	4192910	I50	5069	33.9	67.2
1291	562829	4192963	I50	4295	34.7	67.9
1292	562478	4191865	I45	2897	35.8	68.7
1293	562251	4191968	I45	2119	37.8	70.4
1322	564485	4201613	I89	4698	31.1	64.4
1341	562935	4193237	I52	4416	34.8	67.9
1342	562915	4192443	I50	4226	33.5	66.7
1343	562867	4192523	I50	4078	34.3	67.7
1344	561979	4191687	I45	1617	39.7	72.2
1345	562355	4192016	I45	2454	36.6	69.1
1352	569875	4197620	I92	4163	29.0	61.8
1353	569605	4196339	I92	4324	28.4	61.3
1377	564580	4202008	I89	5220	26.9	60.0
1396	567693	4196166	I93	3934	34.5	67.6
1398	564763	4195350	T1	2037	36.6	67.5
1401	562064	4192360	I50	1463	42.0	74.3
1402	562056	4192370	I50	1430	42.1	74.4
1403	562620	4192457	I50	3261	37.2	70.4
1404	562458	4192796	I50	2959	38.2	71.3
1405	563212	4193256	I01	4596	34.3	67.5
1406	563076	4192427	I50	4754	32.6	65.8
1407	563103	4192488	I50	4846	32.7	66.0
1408	563125	4192493	I50	4918	32.7	66.0
1410	562290	4191475	I45	2851	36.4	69.6
1411	562271	4191938	I45	2192	37.6	70.1
1412	562427	4191961	I45	2697	36.1	68.9
1413	562322	4192054	I45	2349	37.2	69.7
1414	563121	4192052	I49	4931	33.0	66.5
1415	563022	4192136	I49	4580	33.2	66.6
1447	566658	4199372	I85	2477	33.8	66.5
1457	561942	4194492	I56	1286	43.0	75.3



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
1460	562010	4192480	I50	1263	42.5	74.8
1461	562631	4192855	I50	3556	37.3	70.6
1462	562432	4193109	I50	3422	38.2	71.4
1464	563051	4192421	I50	4672	32.7	65.9
1466	563169	4192467	I50	5062	32.5	65.8
1467	562856	4192820	I50	4216	34.3	67.6
1468	562421	4191628	I45	2953	36.3	69.5
1469	562356	4192044	I45	2461	36.0	68.4
1470	562201	4192149	I49	1900	40.1	72.7
1476	569645	4197100	I92	3278	33.9	67.2
1477	569843	4196180	I92	5253	27.3	60.6
1507	563840	4198465	I82	4147	32.4	65.5
1508	564000	4198687	I82	3281	34.8	68.0
1511	566670	4199736	I85	1371	35.9	67.6
1528	565968	4197106	I05	909	44.2	76.1
1532	562669	4193122	I50	4075	36.5	69.8
1533	563378	4193200	I01	4501	34.2	67.4
1534	562964	4193468	I52	3783	35.5	68.6
1536	563064	4192445	I50	4718	32.7	65.9
1539	562318	4191757	I45	2477	36.7	69.5
1540	562079	4192155	I49	1503	41.6	73.9
1546	569364	4197596	I92	2569	33.7	66.2
1547	570073	4197327	I92	4649	27.8	60.8
1557	558103	4193338	I64	1913	39.8	72.5
1560	564330	4198999	I82	1801	37.0	69.4
1563	567966	4199277	I99	3461	32.8	65.9
1573	564270	4196436	I59	2559	36.2	68.1
1577	562383	4192420	I50	2484	38.7	71.7
1580	562991	4192425	I50	4478	33.1	66.4
1581	562776	4192552	I50	3786	35.9	69.3
1582	562939	4192787	I50	4449	34.0	67.3
1583	561936	4191856	I45	1198	41.0	73.0
1584	562423	4191916	I45	2697	36.2	69.0
1586	569903	4197489	I92	4154	28.8	61.6
1614	564338	4201710	I89	5276	30.1	63.6
1618	565838	4199521	I84	2641	34.1	66.9
1640	563455	4194173	I01	1854	38.1	70.5
1642	566383	4195368	I13	3478	34.8	67.7
1645	562692	4192680	I50	3579	36.9	70.2
1648	563073	4192506	I50	4751	33.1	66.4
1650	562290	4192092	I49	2224	39.1	71.9
1652	562778	4191889	I45	3865	34.5	67.7
1653	563124	4192133	I49	4915	32.7	66.1
1657	569132	4197375	I92	1601	38.7	71.0
1674	558134	4193708	I64	2805	37.6	70.6
1679	567355	4198125	I99	1864	35.6	68.7
1691	563957	4196691	I59	2894	34.9	67.4
1694	567830	4196282	I93	3363	34.2	67.1
1698	563149	4192616	I50	5026	34.7	68.4
1701	562313	4191630	I45	2635	37.0	70.0
1702	562478	4191677	I45	3064	36.2	69.4
1703	562600	4192103	I49	3219	35.3	68.2
1733	564650	4201631	I89	4265	31.7	65.0
1750	562591	4193667	I52	2710	36.1	68.8
1751	562235	4192347	I49	2011	40.0	72.7
1752	562692	4192420	I50	3497	35.7	68.9
1753	563306	4193153	I01	4744	34.1	67.4
1754	564433	4194001	I02	1490	35.6	68.4
1755	563020	4192467	I50	4573	33.2	66.5
1756	563214	4192702	I50	5276	34.0	67.7



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
1757	562268	4192040	I45	2172	39.2	71.9
1758	563155	4192121	I49	5020	32.6	66.0
1786	565788	4201055	I89	492	45.9	76.9
1787	566240	4199748	I85	1388	36.0	68.1
1801	565163	4196140	T1	906	45.8	73.9
1803	566321	4195323	I07	3642	34.9	67.8
1805	562201	4192305	I49	1883	40.4	73.0
1806	561999	4192375	I50	1243	42.9	75.0
1807	562596	4192409	I50	3182	37.3	70.5
1808	562686	4193006	I50	3934	36.4	69.7
1809	562532	4193066	I50	3602	37.7	71.0
1811	561946	4191570	I45	1827	39.4	72.1
1812	562306	4192072	I49	2290	38.9	71.7
1817	569371	4197093	I92	2402	35.8	68.6
1846	565611	4201130	I89	814	42.8	74.5
1847	566050	4199916	I85	1509	37.9	70.2
1859	563905	4196583	I59	3202	35.2	67.8
1860	567436	4197802	I98	1677	37.6	70.1
1865	563158	4192673	I50	5079	34.4	68.1
1866	562991	4192719	I50	4564	33.9	67.3
1867	563002	4192793	I50	4656	34.0	67.3
1869	563036	4192945	I50	4905	34.0	67.3
1870	561250	4191672	I47	1132	41.7	74.2
1871	562233	4191592	I45	2474	37.3	70.3
1877	569823	4197397	I92	3848	29.3	62.0
1914	565087	4201376	I89	2612	33.5	66.0
1923	569981	4198165	I92	5262	30.8	64.5
1932	564191	4195389	I41	1916	39.9	72.6
1937	567070	4195161	I13	4629	31.4	64.2
1940	563186	4192263	I49	5105	32.7	66.1
1942	562072	4191839	I45	1627	39.2	71.5
1943	562036	4192063	I45	1417	41.3	73.5
1993	564248	4195449	I41	2152	38.3	70.9
1997	566696	4195330	I13	3688	34.6	67.8
1998	562153	4192261	I49	1716	40.8	73.3
1999	561943	4192326	I49	1056	43.8	75.8
2000	563021	4193157	I52	4774	34.4	67.6
2004	561949	4191797	I45	1325	40.4	72.5
2005	561152	4190750	I47	4091	31.9	65.6
2022	557760	4194244	I64	4941	33.9	67.6
2048	567896	4196455	I93	2776	35.8	68.8
2049	568258	4196604	I93	1775	36.8	69.2
2051	564692	4194145	I02	1762	34.1	67.5
2054	562179	4192186	I49	1811	40.4	73.0
2055	562683	4192932	I50	3819	37.3	70.7
2057	562940	4192749	I50	4423	34.0	67.3
2093	565965	4201990	I89	3609	32.5	65.7
2098	566401	4199744	I85	1198	37.7	69.6
2099	566658	4199322	I85	2635	33.6	66.3
2114	564549	4194298	I02	1135	39.7	71.6
2116	563003	4193189	I52	4656	34.5	67.6
2118	564492	4194098	I02	1335	35.8	69.0
2120	563062	4192399	I50	4711	32.6	65.8
2121	563087	4192852	I50	4974	33.8	67.1
2122	561865	4191904	I45	919	42.8	74.7
2123	562184	4192064	I45	1903	40.1	72.7
2133	569487	4197505	I92	2838	33.4	66.2
2165	564455	4201668	I89	4872	30.7	64.1
2166	564178	4200204	I80	2323	33.4	65.6
2170	566533	4201297	I89	2904	35.6	68.3



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
2186	564420	4196409	I59	2352	38.6	70.8
2191	562517	4193050	I50	3533	37.8	71.1
2192	562766	4192274	I49	3727	33.5	66.4
2193	563225	4193059	I01	5138	34.0	67.3
2194	562353	4192118	I49	2408	38.7	71.5
2200	568744	4196440	I93	2484	35.8	68.6
2202	569851	4196737	I92	4268	28.8	61.8
2222	558225	4193146	I64	1217	42.2	74.5
2224	560777	4191050	I28	3009	32.9	66.9
2225	563988	4199024	I82	2785	35.7	68.6
2239	564319	4195377	I41	1995	38.5	71.0
2241	564899	4196173	T1	850	45.6	72.6
2245	560941	4190753	I28	4114	33.0	66.1
2251	569248	4197531	I92	2133	36.0	68.6
2277	558039	4193272	I64	1952	40.2	72.9
2280	566000	4202058	I89	3852	30.7	63.9
2282	563895	4200878	I80	4488	31.6	65.2
2283	564427	4200560	I80	2641	32.8	65.1
2284	564427	4199058	I82	1427	39.8	72.1
2295	568962	4198094	I94	2395	35.2	67.4
2308	565331	4196833	I11	945	44.5	76.2
2309	568312	4196647	I93	1594	37.6	69.9
2312	562031	4192028	I45	1394	41.2	73.5
2313	562078	4192097	I49	1552	41.4	73.8
2344	558685	4192223	I69	896	45.7	77.7
2345	565434	4201209	I89	1381	38.0	69.9
2346	566085	4200168	I85	1280	41.1	73.1
2347	566907	4200464	I86	1562	37.9	70.0
2353	568741	4198274	I97	2320	36.8	69.1
2357	561790	4194769	I56	948	44.0	76.1
2360	567873	4196439	I93	2864	35.7	68.8
2361	562641	4192274	I49	3317	34.7	67.7
2363	562559	4192828	I50	3307	37.6	70.9
2364	562641	4193103	I50	3967	36.6	69.9
2365	563235	4192476	I50	5279	33.9	67.7
2366	563048	4192505	I50	4669	33.1	66.4
2367	563055	4192874	I50	4892	33.9	67.2
2368	561838	4191971	I45	771	44.2	75.9
2420	564530	4196330	T1	1995	38.8	70.9
2422	565960	4196928	I15	679	46.3	77.9
2423	562264	4192331	I49	2096	39.7	72.4
2424	562234	4192454	I50	1991	40.1	72.8
2425	562980	4193193	I52	4610	34.6	67.8
2426	562767	4193381	I52	3776	34.8	67.6
2427	563068	4192621	I50	4764	34.7	68.3
2430	569863	4197509	I92	4039	29.1	61.8
2451	558304	4193755	I64	2730	39.1	72.1
2455	564576	4200724	I80	2986	34.7	67.5
2458	566882	4200694	I86	1916	36.5	68.8
2460	566175	4199867	I85	1240	39.5	71.7
2482	562271	4192466	I50	2116	39.7	72.5
2483	562690	4192663	I50	3563	36.9	70.2
2484	562840	4192791	I50	4140	34.2	67.4
2485	562758	4192858	I50	3950	36.5	69.9
2486	561861	4191960	I45	853	43.6	75.4
2487	561103	4190636	I47	4495	31.2	65.1
2488	563060	4192020	I49	4751	33.2	66.7
2491	569564	4197563	I92	3136	33.3	66.3
2492	569782	4196314	I92	4810	27.5	60.5
2510	560479	4194316	I62	3360	35.9	68.9



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
2512	558195	4193737	I64	2802	38.5	71.5
2513	563993	4199100	I82	2700	34.2	67.0
2515	565637	4201116	I89	738	43.5	75.0
2516	567298	4199793	I85	2900	32.2	65.1
2530	561926	4192370	I50	1014	44.1	76.0
2531	562672	4192722	I50	3550	37.0	70.3
2537	562816	4192914	I50	4193	34.6	67.8
2538	563318	4193101	I01	4879	33.9	67.2
2539	562258	4191610	I45	2510	36.9	69.9
2547	569422	4197116	I92	2549	35.5	68.5
2548	569990	4197655	I92	4560	29.1	62.3
2549	568509	4196672	I93	1509	38.9	71.3
2550	569813	4196616	I92	4331	28.7	61.7
2575	558055	4193236	I64	1850	40.5	73.2
2582	564185	4198905	I82	2369	36.7	69.5
2595	562146	4194241	I52	1099	41.5	73.7
2597	562154	4192321	I49	1736	40.9	73.4
2598	563517	4193166	I01	4436	33.5	66.8
2599	563016	4192591	I50	4583	33.6	67.0
2600	563010	4192665	I50	4596	34.1	67.5
2631	558048	4193489	I64	2385	39.2	72.1
2634	566503	4201325	I89	2854	35.6	68.3
2639	566268	4199876	I85	997	40.8	72.6
2646	563596	4194796	I40	784	41.4	72.5
2647	562429	4192209	I49	2625	38.2	71.2
2649	561975	4192354	I50	1181	43.3	75.3
2650	562866	4192343	I49	4068	33.1	66.1
2652	562743	4192463	I50	3661	35.4	68.8
2654	562944	4192696	I50	4403	34.2	67.5
2663	569984	4197093	I92	4383	28.1	61.0
2664	569732	4196352	I92	4603	27.8	60.8
2665	570029	4197011	I92	4570	27.8	60.7
2691	564244	4199863	I80	1778	37.1	69.2
2692	563564	4198037	I60	4633	31.5	64.5
2693	564105	4198368	I82	3786	33.1	66.2
2702	568513	4198947	I99	3081	31.7	64.2
2706	562094	4194167	I52	1391	38.8	71.1
2707	564686	4196315	T1	1604	40.7	72.6
2708	562090	4192198	I49	1519	41.5	73.8
2709	562530	4192424	I50	2966	37.7	70.8
2710	562511	4192853	I50	3192	37.9	71.0
2711	563007	4193627	I52	3419	35.5	68.4
2714	562330	4191607	I45	2720	36.7	69.9
2715	562278	4191680	I45	2457	36.9	69.8
2747	558457	4193858	I65	2897	39.1	72.1
2780	563991	4196598	I59	2930	35.4	67.9
2786	562191	4192199	I49	1844	40.3	72.9
2787	562069	4192478	I50	1453	41.8	74.1
2788	562609	4192667	I50	3304	37.4	70.6
2789	563540	4193166	I01	4416	33.5	66.7
2792	562787	4192529	I50	3816	35.7	69.1
2793	562832	4191838	I45	4058	35.2	68.8
2799	568893	4196316	I93	3071	34.0	67.0
2835	565238	4201511	I89	2549	35.2	68.0
2837	566262	4199679	I85	1552	35.4	67.5
2857	562015	4192228	I49	1263	42.6	74.8
2858	562690	4192512	I50	3494	36.8	70.2
2859	562568	4193077	I50	3717	37.6	70.9
2862	562839	4192381	I50	3983	33.3	66.2
2865	562356	4191586	I45	2828	36.5	69.7



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
2874	569726	4197617	I92	3694	31.0	64.1
2896	558274	4193996	I65	3514	34.8	67.6
2898	564110	4199989	I80	2270	33.8	65.9
2901	566065	4198005	I05	3422	36.6	69.7
2913	563205	4196702	I37	2779	36.0	69.1
2917	567629	4196100	I13	4022	35.2	68.4
2918	567594	4196225	I13	3822	35.6	68.8
2921	562584	4192909	I50	3491	37.6	71.0
2922	562533	4192954	I50	3409	37.8	71.1
2923	562524	4192975	I50	3422	37.8	71.1
2925	563131	4192755	I50	5039	33.7	67.2
2927	562026	4191739	I45	1640	39.1	71.5
2928	561423	4191169	I47	2612	33.8	67.1
2929	562980	4192128	I49	4442	33.3	66.6
2961	559100	4191414	I42	1033	44.0	75.9
2978	563647	4197031	I59	3684	34.1	67.2
2983	562359	4192417	I50	2408	38.9	71.8
2985	563195	4193611	I01	3694	34.9	67.7
2987	563304	4193118	I01	4849	34.0	67.3
2988	562325	4192128	I49	2313	38.9	71.8
2995	570095	4197188	I92	4718	27.6	60.6
3031	564012	4195346	I41	1768	40.5	73.0
3033	568264	4196788	I93	1204	39.2	71.1
3035	562050	4192311	I49	1394	42.1	74.4
3036	562176	4192343	I49	1818	40.7	73.2
3037	563083	4193740	I52	3294	35.7	68.5
3040	562990	4192683	I50	4541	34.0	67.4
3042	561184	4191097	I47	2963	33.9	67.2
3050	569492	4197560	I92	2910	33.9	66.7
3051	568613	4196770	I93	1322	37.0	68.6
3083	563777	4198445	I82	4344	32.2	65.4
3084	566801	4200987	I86	2556	35.9	68.6
3100	562446	4192885	I50	3048	38.2	71.4
3102	563113	4192456	I50	4879	32.7	65.9
3103	562811	4192529	I50	3898	35.4	68.8
3105	562894	4192729	I50	4262	34.1	67.4
3107	563131	4192846	I50	5108	33.8	67.1
3110	569381	4197870	I92	3107	34.3	67.2
3136	566772	4200818	I86	2018	36.3	68.7
3138	565509	4199672	I84	1680	38.7	71.0
3139	565996	4199441	I85	2671	33.9	66.6
3140	566656	4199669	I85	1552	35.3	67.4
3155	562499	4192420	I50	2864	37.9	70.9
3156	562609	4193034	I50	3757	37.1	70.4
3157	563420	4193200	I01	4446	33.9	67.1
3158	562895	4193387	I52	3914	35.4	68.5
3161	562983	4192459	I50	4452	33.4	66.7
3162	563147	4192464	I50	4990	32.6	65.9
3163	562750	4193014	I50	4131	36.0	69.4
3165	562142	4192150	I49	1709	40.8	73.2
3168	563181	4191862	I45	5190	33.4	67.3
3170	569535	4197604	I92	3091	33.5	66.5
3171	568507	4196778	I93	1168	40.5	72.6
3193	563899	4199128	I82	2982	33.2	65.9
3194	563604	4198382	I82	4918	30.1	63.8
3195	563908	4198703	I82	3494	34.2	67.4
3219	565041	4194333	I02	2707	31.9	65.9
3220	562219	4192283	I49	1936	40.2	72.8
3221	562469	4192451	I50	2766	38.1	71.1
3222	562384	4192932	I50	2956	38.5	71.6



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
3223	562879	4193243	I52	4331	35.0	68.2
3226	562824	4192655	I50	3986	36.0	69.5
3228	563054	4192803	I50	4829	33.8	67.2
3229	560893	4190997	I28	3323	33.3	66.9
3285	565391	4196527	I16	410	48.2	79.0
3288	562091	4192580	I50	1585	41.6	74.1
3289	562600	4192842	I50	3448	37.4	70.7
3290	562704	4192903	I50	3842	37.2	70.6
3291	563520	4193206	I01	4308	33.7	66.9
3292	563115	4193415	I52	4196	35.1	68.2
3293	563195	4192428	I50	5144	32.6	66.0
3295	563306	4193058	I01	5023	33.9	67.2
3296	562064	4191658	I45	1896	38.8	71.5
3303	569459	4197544	I92	2789	33.6	66.4
3325	559543	4190396	I26	4206	31.8	65.1
3329	563892	4198624	I82	3684	31.7	64.8
3331	567229	4201352	I86	4304	32.2	65.6
3344	568360	4196895	I93	768	42.2	73.5
3347	562688	4192804	I50	3675	37.2	70.7
3348	562568	4192900	I50	3428	37.7	70.9
3351	562951	4192666	I50	4406	34.4	67.8
3353	562837	4192987	I50	4350	34.6	67.8
3354	561980	4191787	I45	1430	39.9	72.1
3357	570068	4197495	I92	4692	27.9	60.8
3384	566434	4200987	I87	2044	38.0	70.3
3410	562605	4192247	I49	3199	35.5	68.4
3411	561972	4192412	I50	1138	43.2	75.3
3412	562400	4192511	I50	2546	38.6	71.6
3413	562058	4192519	I50	1434	41.8	74.2
3414	562695	4192859	I50	3757	37.3	70.7
3416	563017	4193405	I52	4049	35.0	68.1
3417	562933	4193654	I52	3209	35.7	68.6
3418	562932	4192398	I50	4285	33.0	66.0
3420	562317	4191973	I45	2336	37.3	69.9
3451	557068	4193331	I64	5000	29.9	63.4
3458	566404	4201064	I87	2159	37.4	69.7
3473	562640	4193187	I50	4121	35.7	68.9
3474	562680	4193640	I52	2881	35.7	68.4
3476	562502	4192900	I50	3235	37.9	71.1
3477	562641	4193045	I50	3868	36.5	69.8
3478	563043	4192586	I50	4672	33.8	67.3
3479	562923	4192740	I50	4364	34.0	67.3
3484	568753	4196280	I93	2976	31.8	64.5
3529	563866	4196983	I59	2972	36.0	68.8
3531	566779	4197046	I04	988	42.8	74.8
3535	562252	4192251	I49	2041	39.8	72.5
3537	562708	4192802	I50	3737	37.2	70.6
3539	562743	4192295	I49	3652	33.6	66.5
3540	563200	4192620	I50	5194	34.5	68.3
3545	561145	4191144	I47	2854	34.7	67.7
3577	559847	4190715	I24	3406	36.8	69.9
3578	559982	4190751	I27	3415	36.8	69.9
3585	564844	4201544	I89	3579	32.4	65.4
3598	561975	4192275	I49	1135	43.3	75.3
3600	563159	4192266	I49	5016	32.7	66.1
3602	562988	4192699	I50	4544	34.1	67.5
3603	562764	4192772	I50	3881	36.9	70.4
3605	562876	4192963	I50	4436	34.6	67.8
3631	559368	4191286	I26	1273	41.2	73.1
3632	565197	4201957	I89	3848	31.9	65.2



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
3635	566181	4200190	I86	988	42.7	74.3
3646	561228	4195382	I58	1621	38.2	70.8
3652	563008	4192464	I50	4531	33.3	66.6
3653	563093	4192615	I50	4843	34.8	68.4
3655	563150	4192830	I50	5154	33.7	67.1
3656	562117	4192126	I49	1647	41.0	73.4
3657	562402	4191178	I45	3780	32.1	65.3
3681	558105	4193117	I64	1535	41.5	74.0
3682	558483	4193878	I65	2940	38.5	71.6
3683	557951	4193940	I64	3763	33.0	65.7
3696	561181	4195613	I58	2119	35.1	67.9
3697	563511	4194228	I01	1604	40.2	72.6
3700	562202	4192207	I49	1880	40.2	72.8
3701	562111	4192280	I49	1578	41.3	73.7
3704	563093	4192486	I50	4813	32.8	66.0
3705	562980	4192974	I50	4767	34.2	67.4
3706	562174	4191972	I45	1867	39.0	71.6
3712	564691	4194103	I02	1831	34.1	67.4
3735	558342	4193860	I65	3015	38.6	71.8
3738	559143	4191376	I23	1070	43.7	75.6
3744	567509	4200178	I85	3419	32.1	65.2
3760	562352	4194187	I52	935	39.4	72.0
3761	563399	4194299	I01	1870	39.5	71.9
3764	562555	4192505	I50	3051	37.5	70.7
3765	563127	4193201	I52	4810	34.4	67.6
3766	562859	4192394	I50	4049	33.2	66.2
3767	562951	4192543	I50	4360	34.0	67.4
3769	563208	4191944	I45	5259	34.1	68.0
3777	569512	4197330	I92	2812	35.1	68.2
3814	565727	4199466	I84	2274	35.0	67.3
3829	561306	4195273	I58	1286	39.7	72.0
3833	562450	4192874	I50	3048	38.2	71.3
3834	562664	4192902	I50	3720	37.4	70.8
3835	562803	4193138	I50	4478	35.9	69.2
3837	562973	4193727	I52	3094	36.0	68.9
3838	563195	4193984	I01	2900	36.8	69.4
3839	563047	4193103	I52	4970	34.2	67.4
3840	562231	4192093	I49	2034	39.7	72.4
3843	569577	4197653	I92	3281	33.1	66.2
3844	569858	4197929	I92	4511	29.6	62.7
3866	564056	4199607	I81	2405	35.9	68.3
3886	564174	4196367	I59	2933	35.7	67.6
3891	561898	4192367	I50	925	44.6	76.5
3893	563113	4192490	I50	4879	32.7	66.0
3894	563234	4192506	I50	5279	34.2	68.0
3896	562920	4192670	I50	4308	34.4	67.8
3898	562301	4191763	I45	2418	36.8	69.6
3899	562138	4192004	I45	1745	39.9	72.4
3901	562276	4191148	I45	3583	32.4	65.5
3930	557835	4194080	I64	4354	32.9	66.1
3949	561994	4192435	I50	1207	42.8	75.0
3950	562298	4192469	I50	2205	39.5	72.3
3951	562995	4192460	I50	4488	33.3	66.6
3980	565303	4202257	I89	4626	27.5	60.3
3983	566826	4200652	I86	1686	37.3	69.5
3984	568227	4199134	I99	3156	32.9	65.8
4002	568500	4196577	I93	1811	37.7	70.3
4005	563117	4193184	I52	4839	34.4	67.5
4006	564628	4193703	I02	2654	33.4	65.9
4007	562758	4192671	I50	3783	36.6	70.0



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
4008	563129	4192814	I50	5075	33.7	67.1
4009	562256	4192058	I45	2136	39.3	72.0
4019	569846	4197015	I92	3976	28.8	61.6
4043	557363	4193241	I64	3990	29.4	63.9
4044	558090	4193631	I64	2664	36.3	69.1
4051	563963	4198830	I82	3120	34.8	67.9
4066	564193	4195239	I41	1437	40.3	72.5
4067	565926	4197642	I05	2388	38.7	71.4
4069	565401	4196740	I16	1086	45.0	76.7
4072	565966	4195445	I08	3087	38.0	70.3
4075	562126	4192302	I49	1637	41.2	73.6
4076	562029	4192389	I50	1332	42.4	74.6
4077	562487	4192476	I50	2825	38.0	71.0
4079	562898	4192340	I49	4173	33.0	66.0
4080	563155	4192418	I50	5016	32.5	65.8
4081	562919	4192565	I50	4259	34.2	67.5
4083	569423	4197459	I92	2595	32.8	65.3
4113	566863	4198286	I99	3458	33.2	66.0
4126	562055	4192421	I50	1407	42.0	74.4
4127	562190	4192437	I50	1847	40.5	73.1
4128	562887	4193310	I52	4134	35.2	68.4
4131	563132	4192792	I50	5069	33.7	67.1
4133	563128	4192862	I50	5112	33.7	67.1
4137	569964	4197310	I92	4288	28.4	61.2
4138	569671	4196765	I92	3691	29.4	62.1
4168	565391	4201614	I89	2556	35.1	67.8
4171	565864	4198536	I84	4131	35.8	69.1
4188	561978	4196149	I33	1732	39.7	72.4
4192	562726	4192245	I49	3596	33.6	66.5
4193	562083	4192342	I49	1516	41.7	74.1
4194	562651	4192426	I50	3363	36.4	69.7
4196	563154	4192500	I50	5016	32.9	66.3
4197	562995	4192609	I50	4524	34.0	67.4
4198	563026	4192671	I50	4652	34.1	67.5
4199	563056	4192672	I50	4751	34.0	67.5
4200	562954	4192733	I50	4455	34.0	67.3
4201	563082	4192799	I50	4915	33.8	67.1
4202	562789	4192967	I50	4180	34.7	67.9
4203	562335	4192036	I45	2392	36.8	69.3
4214	569580	4197391	I92	3054	33.9	67.0
4215	569931	4197727	I92	4452	28.6	61.4
4250	566626	4200935	I86	2198	36.7	69.1
4264	564462	4196841	I59	1194	40.2	71.8
4265	561208	4195436	I58	1745	37.8	70.5
4266	561649	4195854	I58	2080	36.6	69.2
4267	566325	4197945	I05	3215	36.7	69.7
4269	562030	4192335	I49	1345	42.4	74.6
4270	562618	4192338	I49	3251	36.5	69.8
4271	562602	4192388	I50	3205	37.3	70.5
4272	562472	4192414	I50	2776	38.1	71.1
4273	562708	4192449	I50	3550	35.7	69.0
4274	562527	4192818	I50	3199	37.8	71.0
4275	562681	4192825	I50	3678	37.3	70.7
4276	562750	4192626	I50	3734	36.7	70.1
4278	561927	4191872	I45	1145	41.3	73.3
4279	562139	4192099	I49	1739	40.7	73.2
4315	559533	4190324	I26	4439	31.4	64.7
4318	564069	4200310	I80	2812	32.2	64.6
4319	565923	4199488	I85	2700	34.3	66.8
4335	562825	4194515	I53	1260	42.5	74.6



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
4336	564608	4194162	I02	1496	34.2	67.9
4337	568405	4196841	I93	922	38.9	70.1
4345	562547	4192433	I50	3022	37.5	70.7
4346	562587	4192445	I50	3150	37.4	70.6
4347	562581	4192496	I50	3136	37.4	70.5
4349	562296	4192991	I50	2831	39.0	72.1
4350	563053	4192441	I50	4678	32.7	65.9
4351	562800	4192468	I50	3852	34.7	67.9
4353	562087	4191208	I45	3074	34.3	67.3
4359	568670	4196486	I93	2247	36.4	69.2
4378	558049	4193816	I64	3251	34.0	66.5
4385	566594	4199328	I85	2575	33.8	66.5
4396	561772	4197271	I33	4793	30.3	63.8
4400	564861	4196221	T1	1043	44.4	72.6
4401	563203	4192402	I50	5174	32.5	65.9
4403	563218	4193035	I01	5220	33.9	67.2
4405	562222	4192081	I49	2014	39.7	72.4
4406	562157	4192087	I49	1808	40.4	73.0
4442	564254	4199753	I80	1765	37.9	70.0
4456	564598	4196323	T1	1814	39.2	71.0
4457	562243	4195814	I33	984	44.2	76.2
4463	563083	4192448	I50	4780	32.8	66.1
4464	563104	4192453	I50	4849	32.7	65.9
4466	563259	4193117	I01	4918	34.0	67.3
4475	569734	4197488	I92	3612	30.0	62.6
4496	566220	4200134	I85	827	43.1	74.7
4497	567121	4198149	I99	2615	35.2	68.2
4504	563367	4197220	I37	4518	32.3	65.5
4506	568003	4196875	I93	1581	38.8	71.1
4507	563153	4193169	I01	4941	34.3	67.5
4508	563124	4193330	I52	4442	34.8	68.0
4509	562877	4193576	I52	3333	35.9	69.0
4511	563085	4192875	I50	4987	33.8	67.1
4512	561459	4191204	I47	2497	34.1	67.2
4513	562339	4191721	I45	2585	36.6	69.6
4514	562237	4191982	I45	2070	38.5	71.1
4515	563069	4191488	I45	5095	30.7	64.2
4542	558983	4191609	I42	784	44.8	76.6
4544	564435	4201626	I89	4862	30.8	64.2
4546	563905	4198529	I82	3848	34.0	67.4
4548	567043	4200591	I86	2139	35.7	68.1
4549	566207	4199830	I85	1243	39.5	71.6
4550	566527	4198205	I04	4026	35.4	68.5
4564	561476	4195247	I58	722	43.0	74.6
4565	563293	4194218	I01	2280	38.1	70.5
4566	563569	4194419	I01	1247	39.7	71.4
4567	563733	4194529	I01	755	44.2	75.7
4571	562229	4192180	I49	1975	39.9	72.6
4572	563002	4193778	I52	3025	36.3	69.2
4574	562979	4192422	I50	4436	33.2	66.4
4575	563135	4192495	I50	4951	32.8	66.1
4576	562546	4191900	I45	3104	35.2	68.1
4613	567220	4200549	I86	2618	34.5	67.3
4614	566295	4199833	I85	1056	40.3	72.2
4624	568754	4198634	I99	3064	32.6	64.9
4635	562845	4192527	I50	4006	34.8	68.2
4636	563207	4192678	I50	5240	34.5	68.2
4637	563197	4192796	I50	5279	33.7	67.2
4638	562763	4192905	I50	4022	35.0	68.3
4639	562202	4191633	I45	2316	37.4	70.3



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
4640	561971	4191915	I45	1237	41.0	73.0
4666	560708	4191036	I28	2976	32.6	66.8
4673	567282	4201572	I86	5003	29.7	63.2
4684	567215	4197406	I04	2772	36.3	68.8
4686	562649	4193647	I52	2825	35.7	68.5
4687	560978	4192390	I43	784	47.7	79.3
4688	562277	4192201	I49	2126	39.5	72.3
4689	562304	4192421	I50	2224	39.4	72.2
4690	562464	4192526	I50	2759	38.1	71.2
4691	562937	4192342	I49	4298	32.9	65.9
4692	563135	4192673	I50	5007	34.3	67.9
4694	562570	4191814	I45	3225	35.6	68.7
4695	562371	4192030	I45	2507	35.8	68.3
4714	558463	4192476	I69	955	44.9	76.9
4721	565834	4201031	I89	502	43.9	74.6
4722	566320	4198259	I04	4236	35.9	69.3
4729	568923	4198498	I97	3241	34.2	66.9
4730	569438	4198785	I94	5105	31.2	64.7
4734	561788	4194579	I56	1302	42.4	74.8
4736	567457	4196089	I13	3494	35.1	68.1
4738	562080	4192280	I49	1480	41.7	74.0
4739	563200	4192415	I50	5164	32.6	65.9
4740	563029	4192793	I50	4741	33.9	67.2
4781	565970	4202213	I89	4331	27.9	60.8
4784	567036	4200488	I86	1985	36.3	68.7
4797	562239	4196040	I33	814	43.9	75.9
4802	562977	4193584	I52	3481	35.5	68.4
4804	563083	4192483	I50	4780	32.8	66.1
4805	563091	4192755	I50	4911	33.7	67.1
4807	562263	4191827	I45	2238	37.2	69.8
4808	562453	4191836	I45	2838	36.4	69.4
4809	561863	4191937	I45	876	43.4	75.2
4810	562258	4192113	I49	2106	39.5	72.2
4815	568629	4196538	I93	2037	37.0	69.6
4816	569829	4196655	I92	4318	28.7	61.7
4836	558011	4193869	I64	3461	33.5	66.2
4839	564554	4201483	I89	4301	31.9	65.2
4840	566740	4201175	I86	3058	34.7	67.4
4855	561447	4195739	I58	1880	34.7	68.5
4856	561987	4195616	I35	1122	43.6	75.8
4862	562721	4192383	I50	3599	34.7	67.8
4863	562425	4192452	I50	2621	38.4	71.4
4864	562017	4192458	I50	1283	42.5	74.7
4865	562359	4192990	I50	2992	38.7	71.8
4866	562582	4193082	I50	3766	37.3	70.6
4867	563103	4192396	I50	4849	32.5	65.7
4870	562839	4193088	I50	4501	35.4	68.7
4871	561144	4191193	I47	2703	34.5	67.7
4876	569780	4197820	I92	4117	29.4	62.1
4905	557568	4194191	I64	5161	30.5	63.7
4906	557391	4193317	I64	3963	30.6	64.5
4915	566845	4200746	I86	1959	36.9	69.4
4926	562292	4192343	I49	2195	39.5	72.3
4927	562437	4192393	I50	2667	38.3	71.3
4928	562731	4192857	I50	3868	37.1	70.6
4929	562708	4193090	I50	4131	36.3	69.7
4931	563027	4192436	I50	4593	33.0	66.2
4932	562955	4192613	I50	4393	34.1	67.5
4953	560781	4190604	I28	4406	32.7	65.7
4954	565210	4201852	I89	3527	32.7	65.8



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
4959	565736	4201080	I89	545	45.2	76.3
4960	566573	4200961	I86	2251	37.0	69.4
4972	564813	4196176	T1	988	44.6	72.2
4976	563164	4192448	I50	5046	32.5	65.8
4979	562798	4192712	I50	3944	35.2	68.5
4980	562430	4190961	I45	4380	31.3	64.6
5007	566434	4199753	I85	1155	37.9	69.7
5017	561583	4194840	I58	1309	42.0	74.3
5023	561932	4192195	I49	1004	43.9	75.8
5024	561898	4192202	I49	889	44.6	76.4
5025	562038	4192209	I49	1342	42.2	74.5
5026	562684	4192903	I50	3780	37.3	70.8
5027	563116	4193239	I52	4682	34.5	67.7
5028	563001	4193252	I52	4465	34.7	67.9
5030	563116	4193461	I52	4072	35.0	68.0
5031	563141	4193570	I52	3839	34.7	67.6
5035	562801	4192994	I50	4255	34.9	68.1
5036	563073	4193106	I52	5000	34.2	67.4
5059	558175	4193904	I64	3330	34.4	67.2
5061	564121	4200089	I80	2329	33.5	65.6
5065	566362	4200148	I85	381	48.2	78.7
5067	567646	4199436	I99	4075	32.0	65.0
5081	561943	4194651	I56	807	44.9	76.8
5084	563251	4193282	I01	4455	34.4	67.5
5087	562773	4192441	I50	3763	34.6	67.7
5088	562987	4192791	I50	4606	33.9	67.2
5089	562458	4191919	I45	2808	35.9	68.8
5099	569371	4196043	I92	4619	30.8	64.3
5130	568476	4199066	I99	3320	31.2	63.8
5140	563058	4193264	I52	4518	34.7	67.9
5141	563002	4192415	I50	4511	32.9	66.1
5142	563002	4192429	I50	4514	33.1	66.3
5143	563164	4192502	I50	5049	32.9	66.3
5144	562886	4192673	I50	4199	34.9	68.3
5145	562956	4192749	I50	4472	33.9	67.2
5146	563041	4192842	I50	4820	33.9	67.2
5149	562570	4191911	I45	3179	35.1	68.0
5179	558056	4193613	I64	2680	35.1	67.4
5188	564247	4199953	I80	1808	37.7	69.9
5210	561759	4197205	I33	4629	30.5	64.0
5212	564372	4196455	I59	2306	38.5	70.8
5214	564525	4194744	I03	1391	40.1	72.2
5220	562361	4192493	I50	2415	38.9	71.8
5221	562542	4192884	I50	3330	37.7	71.0
5222	563050	4192205	I49	4659	33.0	66.3
5223	562989	4192669	I50	4528	34.2	67.6
5224	562857	4192784	I50	4190	34.3	67.5
5226	562294	4191655	I45	2539	37.1	70.2
5231	569619	4197607	I92	3356	30.7	63.2
5262	558185	4193680	I64	2644	38.8	71.7
5263	558419	4193819	I65	2805	39.2	72.2
5265	565312	4202058	I89	3999	31.5	64.8
5283	562673	4192366	I50	3442	35.4	68.5
5284	562119	4192408	I50	1621	41.3	73.7
5285	563150	4192385	I50	5000	32.3	65.6
5286	563040	4192470	I50	4639	33.1	66.3
5287	563098	4192508	I50	4829	33.0	66.3
5289	563041	4192672	I50	4701	34.0	67.5
5290	562398	4192060	I49	2592	35.2	67.7
5291	562209	4192070	I49	1985	39.8	72.5



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
5292	563156	4192047	I49	5049	33.4	67.0
5294	563083	4192127	I49	4783	32.9	66.3
5332	557244	4193169	I64	4324	29.6	63.9
5342	566805	4200096	I85	1102	40.7	72.4
5359	565996	4197155	I05	925	43.8	75.8
5360	562037	4192499	I50	1358	42.1	74.4
5361	562561	4193025	I50	3606	37.7	71.0
5362	563456	4193246	I01	4262	34.2	67.4
5363	563133	4192440	I50	4941	32.6	65.8
5365	562364	4191691	I45	2697	36.8	69.9
5390	563968	4199342	I82	2707	34.1	66.6
5393	567515	4200447	I86	3478	32.8	66.0
5394	566697	4199518	I85	2060	33.9	66.3
5410	562894	4192962	I50	4491	34.5	67.7
5411	562166	4192065	I45	1844	40.3	72.8
5445	564857	4202250	I89	5246	27.2	60.4
5469	565692	4196835	I15	715	45.8	77.5
5470	568472	4196754	I93	1220	40.2	72.3
5473	562062	4192175	I49	1437	41.8	74.1
5474	562558	4192188	I49	3051	36.1	69.0
5475	562688	4193084	I50	4065	36.4	69.7
5476	563467	4193200	I01	4390	33.7	66.9
5477	562961	4193706	I52	3120	35.9	68.8
5479	562896	4192788	I50	4314	34.1	67.4
5480	562883	4192854	I50	4337	34.4	67.7
5482	561980	4191814	I45	1388	40.1	72.2
5514	558557	4192604	I69	748	47.0	78.8
5524	568957	4198244	I94	2733	35.2	67.7
5530	561388	4195097	I58	1089	40.9	73.0
5531	562251	4194176	I52	1066	39.5	71.7
5537	565313	4194235	I02	3629	32.3	65.1
5538	562557	4193681	I52	2641	36.2	69.0
5539	562172	4192279	I49	1781	40.7	73.2
5540	562455	4192461	I50	2720	38.2	71.2
5541	563258	4193142	I01	4846	34.1	67.4
5542	563079	4193667	I52	3465	35.4	68.3
5543	562747	4192506	I50	3681	35.8	69.1
5544	563281	4193061	I01	5049	33.9	67.2
5547	562912	4192051	I49	4252	33.6	66.9
5553	569658	4197585	I92	3455	32.6	65.7
5575	557916	4193717	I64	3232	33.7	66.3
5580	565683	4201106	I89	650	44.2	75.6
5581	566101	4201774	I89	3064	33.5	66.4
5582	565927	4200116	I90	1033	39.6	70.9
5583	566302	4200258	I86	548	45.8	76.8
5585	567296	4201599	I86	5102	28.3	61.6
5599	568051	4196915	I93	1378	39.5	71.7
5601	562473	4192966	I50	3261	38.1	71.3
5602	562914	4193630	I52	3241	35.7	68.6
5603	563018	4192532	I50	4573	33.4	66.7
5604	563158	4192792	I50	5154	33.8	67.2
5606	560940	4191275	I28	2631	35.8	68.4
5607	561959	4191844	I45	1280	40.6	72.7
5613	569920	4197570	I92	4265	29.4	62.4
5645	558169	4193200	I64	1467	40.7	73.1
5646	558113	4193309	I64	1827	40.0	72.7
5673	564841	4196213	T1	1047	44.3	72.5
5678	562130	4192237	I49	1637	41.1	73.5
5679	562136	4192385	I50	1683	41.1	73.6
5680	562082	4192428	I50	1493	41.7	74.1



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
5682	563039	4192439	I50	4633	32.8	65.9
5686	562776	4192861	I50	4009	35.7	69.1
5688	562471	4191563	I45	3192	36.2	69.6
5723	558308	4193000	I64	791	45.1	77.0
5733	566603	4199376	I85	2425	33.9	66.6
5734	567992	4199400	I99	3868	32.2	65.3
5750	564024	4196663	I59	2733	35.2	67.6
5753	563302	4193199	I01	4616	34.1	67.3
5754	563216	4193204	I01	4738	34.2	67.4
5755	562829	4193586	I52	3232	36.3	69.4
5756	562952	4192479	I50	4350	33.5	66.8
5759	562792	4192744	I50	3947	36.0	69.3
5761	563005	4192011	I49	4577	33.4	66.9
5785	560559	4191003	I28	2976	32.6	66.7
5788	564512	4199111	I82	1099	41.5	73.4
5789	564980	4201416	I89	2972	33.8	66.6
5793	566161	4199739	I85	1568	35.2	67.6
5805	561995	4192252	I49	1198	42.9	75.0
5806	561904	4192350	I49	958	44.5	76.4
5807	562645	4192463	I50	3340	37.1	70.4
5808	563248	4193242	I01	4573	34.3	67.4
5811	562839	4192542	I50	3990	35.0	68.4
5812	562312	4191547	I45	2769	36.6	69.7
5813	563187	4191745	I45	5256	32.1	66.0
5845	565444	4201320	I89	1637	35.5	67.3
5846	565973	4201030	I89	866	41.7	73.1
5847	567288	4201376	I86	4485	31.9	65.3
5849	567233	4201503	I86	4724	31.7	65.3
5865	562925	4194684	I34	1122	44.7	76.7
5867	565658	4196788	I15	764	46.0	77.6
5868	561953	4192300	I49	1073	43.7	75.6
5869	562347	4192530	I50	2379	39.0	71.9
5870	563119	4193270	I52	4603	34.7	67.8
5873	562987	4192754	I50	4577	33.9	67.3
5874	561925	4191838	I45	1191	41.1	73.1
5879	569257	4197841	I92	2746	35.4	68.1
5889	557591	4194143	I64	4993	30.8	64.0
5891	558903	4192061	I70	1407	44.9	76.9
5908	564950	4194436	I02	2398	34.7	67.4
5909	562578	4192768	I50	3294	37.5	70.7
5910	562760	4193150	I50	4377	36.0	69.3
5911	563201	4193163	I01	4875	34.2	67.4
5914	563062	4192424	I50	4711	32.7	65.9
5915	563111	4192435	I50	4869	32.6	65.9
5916	562767	4192715	I50	3845	35.8	69.1
5919	563516	4193111	I01	4610	33.7	67.0
5920	562286	4192024	I45	2228	38.3	71.0
5921	562317	4192075	I49	2320	38.9	71.7
5948	565200	4201891	I89	3655	32.4	65.5
5952	565911	4199542	I85	2598	34.3	66.9
5969	561236	4195973	I58	2887	34.2	67.2
5973	566679	4195550	I13	2976	36.4	69.3
5975	562728	4192907	I50	3917	37.1	70.6
5976	563054	4193502	I52	3845	35.0	68.0
5978	562789	4192332	I49	3812	33.4	66.4
5980	562822	4193054	I50	4400	35.3	68.6
5981	562066	4192075	I45	1522	40.9	73.2
5982	561090	4190838	I47	3865	32.4	66.0
6003	559506	4190243	I26	4695	31.3	64.5
6019	569099	4198523	I94	3737	34.2	67.2



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
6025	565238	4196287	I16	781	45.3	75.7
6028	562610	4193176	I50	4019	36.0	69.1
6029	562730	4192338	I49	3622	33.7	66.6
6032	563031	4192469	I50	4606	33.1	66.4
6034	563128	4192740	I50	5020	33.7	67.2
6035	562878	4192785	I50	4255	34.2	67.5
6036	561971	4191582	I45	1847	39.3	72.0
6061	565181	4201615	I89	2930	34.2	67.1
6062	566307	4201439	I89	2546	35.8	68.5
6063	565149	4199192	I84	1024	42.7	74.5
6071	569100	4199294	I99	5240	30.4	64.0
6080	566615	4195224	I13	3983	33.8	67.0
6083	562634	4192419	I50	3307	36.5	69.8
6084	562650	4193063	I50	3924	36.5	69.8
6085	563060	4192287	I49	4692	32.6	65.8
6086	562938	4192378	I50	4308	32.9	66.0
6087	562287	4191949	I45	2244	37.5	70.1
6089	562809	4191945	I45	3950	33.9	67.1
6093	568781	4196405	I93	2641	35.3	68.3
6110	557114	4193094	I64	4715	27.8	62.7
6111	558212	4193748	I64	2812	38.6	71.7
6112	558164	4193076	I64	1309	41.7	74.1
6113	560623	4190996	I28	3035	32.4	66.6
6114	565315	4201994	I89	3802	32.0	65.2
6119	564080	4199902	I80	2323	34.6	66.9
6120	565212	4201383	I89	2303	35.3	67.9
6145	562567	4192804	I50	3301	37.6	70.8
6146	563174	4192797	I50	5207	33.7	67.2
6147	562837	4192857	I50	4196	34.5	67.7
6148	563064	4192921	I50	4967	33.9	67.2
6149	563034	4193103	I52	4951	34.3	67.4
6152	569632	4197335	I92	3205	33.5	66.7
6179	558006	4193969	I64	3757	33.1	65.8
6185	564652	4199015	I82	1030	41.6	73.6
6186	565972	4199595	I85	2336	34.3	67.0
6197	563182	4194342	I61	2241	38.2	70.1
6201	562089	4192258	I49	1506	41.6	73.9
6202	562190	4192269	I49	1837	40.5	73.1
6204	563042	4193250	I52	4534	34.7	67.8
6205	562875	4193268	I52	4245	35.2	68.3
6207	562791	4192506	I50	3825	35.4	68.8
6208	563130	4192881	I50	5138	33.8	67.1
6209	562891	4192920	I50	4432	34.4	67.7
6210	562448	4191737	I45	2904	36.4	69.5
6211	562181	4192133	I49	1844	40.3	72.8
6214	568628	4196327	I93	2700	32.1	64.5
6215	568576	4196393	I93	2451	33.0	65.5
6257	563370	4194098	I01	2218	37.5	70.1
6260	564961	4196356	T1	1404	43.5	73.5
6262	562635	4192345	I49	3310	36.0	69.2
6263	562245	4192399	I50	2037	40.0	72.7
6264	562618	4192648	I50	3320	37.3	70.5
6265	562938	4193260	I52	4354	35.0	68.1
6267	562765	4192303	I49	3727	33.5	66.4
6268	563210	4192384	I50	5197	32.5	65.9
6269	562971	4192456	I50	4409	33.3	66.5
6270	563054	4192475	I50	4685	32.9	66.2
6272	563042	4192750	I50	4747	33.9	67.3
6273	562815	4193039	I50	4357	35.2	68.4
6274	562303	4192004	I45	2287	37.3	69.9



Receptor ID	UTM Coordinates Zone 14, NAD 83 Datum		Nearest Sound Source [ID]	Distance to Nearest Sound Source [feet]	Sound Pressure Level at Receptor [dBA]	Sound Pressure Level at Receptor [dB]
	Easting [m]	Northing [m]				
6275	562288	4192138	I49	2188	39.3	72.1
6277	563167	4192089	I49	5069	32.6	66.1
6280	569801	4197689	I92	4009	29.3	62.1
6302	558249	4192286	I69	1785	41.0	73.6
6303	558413	4192152	I69	1568	42.4	75.0
6305	558995	4191978	I42	1096	44.6	76.5
6306	566401	4195287	I13	3740	34.4	67.3
6313	566805	4197198	I04	1273	41.2	73.4
6450	562173	4191973	I45	1864	39.0	71.6
6565	566761	4199960	I85	1063	38.7	70.3
6566	566877	4200060	I85	1342	39.1	71.1
6567	566895	4200208	I86	1427	39.1	71.1
6568	566104	4200215	I87	1191	41.9	73.7
6569	566059	4200250	I87	1040	42.9	74.4
6572	562105	4195754	I33	1467	43.2	75.5
6575	561953	4195597	I35	1070	43.7	75.8
6589	569841	4198348	I94	5276	30.0	63.4
6751	568401	4196670	I93	1486	38.6	70.9
6752	568082	4196422	I93	2546	35.3	68.1
6767	558552	4194517	I79	4980	34.3	67.9
6769	562706	4195089	I34	797	46.4	77.8
6770	561836	4194814	I56	761	45.0	76.9
6771	562750	4194476	I52	1175	43.6	75.8
6779	564047	4199756	I80	2434	35.5	67.9
6935	569620	4197473	I92	3232	31.8	64.7
6936	569567	4197442	I92	3045	33.1	66.1
6937	569527	4197479	I92	2943	33.1	65.9
6938	569587	4197530	I92	3176	32.0	64.8
6939	569975	4197536	I92	4416	28.7	61.7
6940	569896	4197885	I92	4554	30.7	64.1
6941	569916	4197831	I92	4534	31.1	64.6
6942	569977	4197808	I92	4688	28.2	61.2
6943	570082	4197697	I92	4888	29.4	62.9
6945	569173	4198348	I94	3471	33.8	66.6

All provided receptors have been confirmed as occupied by ECT.



APPENDIX C – SOUND SPECTRA OF CONSTRUCTION EQUIPMENT

Equipment	Frequency [Hz]								Total [dB]	Total [dBA]
	63	125	250	500	1000	2000	4000	8000		
Grader	88	87	83	79	84	78	74	65	92	87
Dump Truck	85	74	78	73	73	74	67	63	87	79
Water Truck	70	65	66	64	64	63	56	46	74	69
Generator	75	72	67	68	70	66	62	60	79	73
Flat Bed	73	78	78	78	74	73	68	66	84	80
Impact Pile Driver	87	93	85	87	83	80	75	72	96	89

Sound Spectra referenced from DEFRA [8] and adjust to match overall FHWA [7] construction sound levels at 50 ft.



About DNV

DNV is a global quality assurance and risk management company. Driven by our purpose of safeguarding life, property and the environment, we enable our customers to advance the safety and sustainability of their business. We provide classification, technical assurance, software and independent expert advisory services to the maritime, oil & gas, power and renewables industries. We also provide certification, supply chain and data management services to customers across a wide range of industries. Operating in more than 100 countries, our experts are dedicated to helping customers make the world safer, smarter and greener.

Green River Solar, LLC

Case No. 2020-00387

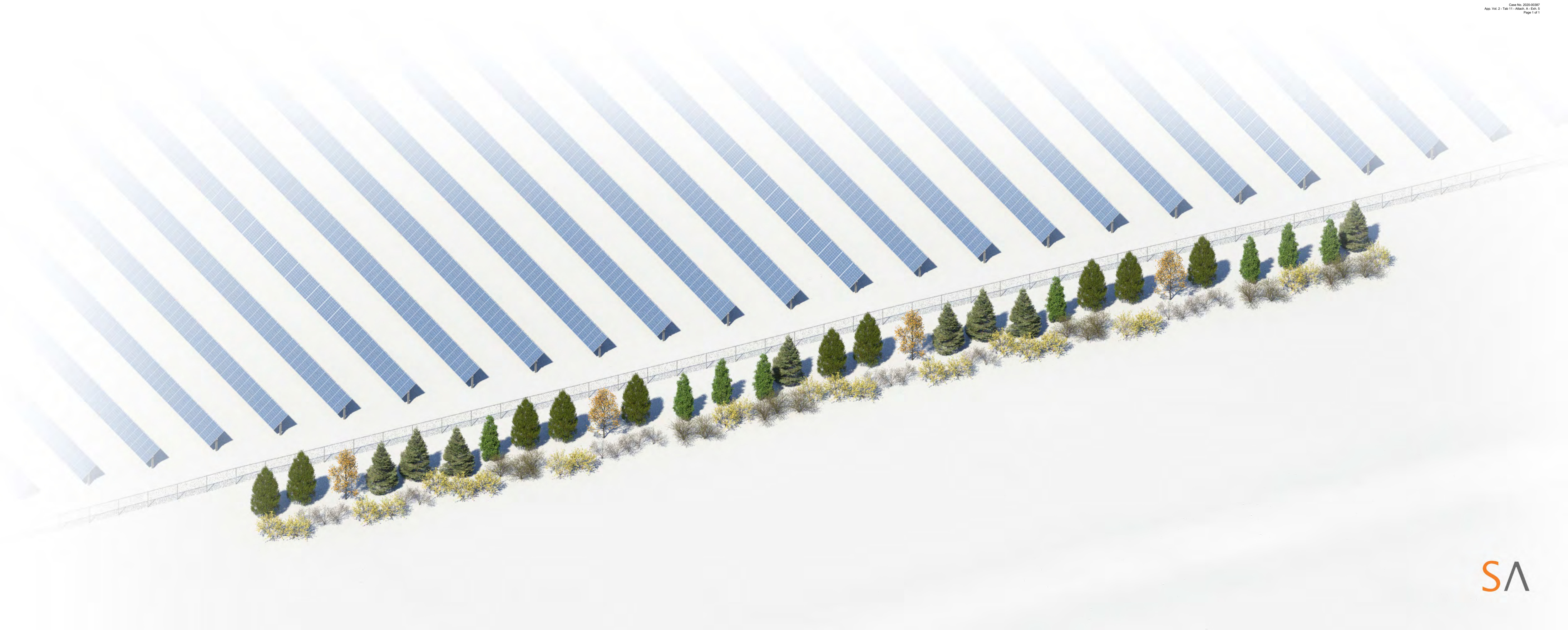
Application - Volume 2

Tab 11

Attachment A

Exhibit 5

Visual Representation of
Proposed Vegetative
Screening
(1 Page)



Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2

Tab 11

Attachment A

Exhibit 6

Traffic and Dust Study

(12 Pages)

Traffic Study and Dust Study for the Green River Solar, LLC Electric Generation Facility

June 21, 2021

Prepared for:

Kentucky State Board on Electric Generation and Transmission Siting
Kentucky Public Service Commission

Prepared by:

Integrated Engineering/ PRIME AE

166 Prosperous Place, Suite 220

Lexington, KY 40509

On Behalf of:

Environmental Consulting and
& Technology, Inc.
3399 Veterans Drive
Traverse City, MI 49684

Green River Solar, LLC
P.O. Box 14000
Juno Beach, FL 33408-0420

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Attachments

- Site Exhibit – 1
- Site Exhibit – 2A
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1.0 Introduction

Green River Solar, LLC proposes to construct a solar electric generating facility that will be capable of generating approximately 200 MWs of electricity from a solar array covering a total of approximately 1,750 acres. This acreage is located in both Breckinridge County (approximately 1,100 acres) and Meade County (approximately 650 acres), Kentucky. The proposed project includes photovoltaic solar panels, associated racking, inverters and a substation transformer that will connect to the existing 161 kV Meade Substation owned by Big Rivers Electric Corporation. The substation is located near Guston Road and Highway 79 in Meade County.

A Site Assessment report must be prepared for electric generation facilities as part of an application for a construction certificate from the Kentucky State Board on Electric Generation and Transmission Siting (Siting Board). The Site Assessment Report requires a traffic study and a dust study for the proposed facility. IE/PRIME AE was hired to perform the studies and evaluate multiple private access roads that will be necessary for construction and operations for the solar farm. This site assessment includes a comprehensive traffic study evaluating the existing roadway network and traffic conditions, traffic safety, dust study, and railroad assessment.

2.0 Traffic Study

2.1 Existing Roadway Network and Traffic Conditions

Two major roadways are present in the proposed project's vicinity. US Highway 60 (US 60) runs east to west connecting the city of Irvington to Fort Knox to the east and Hardinsburg to the west. Kentucky Highway 79 (KY 79) runs north to south connecting Irvington to the city of Brandenburg.

On the southwestern part of the project, two proposed site entrances are located on minor collector Webster Basin Spring Road and local O.L. Norton Road. These two roads connect to US 60. Similarly, in the center of the project, one proposed site entrance is located on local Mount Merino Cemetery Road that connects to KY 79. In the north part of the project, three proposed site entrances are located on minor collector Sandy Hill Road, Midway Road, and Dooley Road. These three roads connect with KY 79. Four other site entrances of the project are located on KY 79. An exhibit showing the proposed sites and entrances is attached with this report as Exhibit 1. The summary of the entrance roadways can be found in the following table:

Site Entrance #	Adjoining Road Name	Highway Functional Classification	Lane Width (Feet)	Paved	Shoulder
1	Webster Basin Spring Road	Minor Collector	22	Yes	No
2	O.L. Norton Lane	Local Road	12	Yes	No
3, 5, 6, 9	KY 79	Minor Arterial	22	Yes	Yes
4	Mount Merino Cemetery Lane	Local Road	11	Yes	No
7	Sandy Hill Road	Minor Collector	20	Yes	No
8	Midway Road	Local Road	20	Yes	No
10	Dooley Road	Local Road	20	Yes	No

The Kentucky Transportation Cabinet (KYTC) collects traffic information and publishes various roadways' annual average daily traffic (AADT). AADT shows the mean traffic volume across all days for a year for a given roadway location. Located in the project vicinity, and listed below, are six KYTC AADT monitoring stations:

- Station ID 035 located on Webster Basin Spring Rd
- Station ID E03 located on South Woodland Rd
- Station ID 520 located on Haysville Rd
- Station ID 004 located on US 60
- Station ID 002 and Station ID 521 located on KY 79
- Station ID 533 located on Sandy Hill Rd
- Station ID 522 located on Dooley Rd

A summary of the AADT in the project vicinity is given below:

Proposed Site Entrance	Site Entrance's Adjoining Roadway	Nearest AADT Monitoring Station ID	Distance (feet) from Monitoring Station to Proposed Site	Annual Average Daily Traffic (AADT)	Year Assessed
Entrance #1	Webster-Basin Spring Rd	Sta 035 on Webster-Basin Spring Rd	1,808	753	2020
Entrance #2	O.L. Norton Rd	Sta E03 on South Woodlawn Rd	5,314	1,502	2017
Entrance #3	KY 79	Sta 002 on KY 79	2,883	2,647	2019
Entrance #4	Mount Merino Cemetery LN	Sta 002 on KY 79	1,334	2,647	2019
Entrance #5	KY 79	Sta 002 on KY 79	4,290	2,647	2019

Entrance #6	KY 79	Sta 521 on KY 79	6,913	2,673	2017
Entrance #7	Sandy Hill Rd	Sta 533 on Sandy Hill Rd	1,778	614	2020
Entrance #8	Midway Rd	Sta 555 on KY 79	4,148	4,248	2018
Entrance #9	US 79	Sta 555 on KY 79	423	4,248	2018
Entrance #10	Dooley Rd	Sta 522 on Dooley Rd	1,962	87	2018
N/A	US 60 through project area	Sta 004 on US 60	N/A	5,552	2019

Traffic collision data in the project area has been collected from the Kentucky State Police website. From May 1, 2018 to May 10, 2021, the collision data reports 46 property damage only crashes and 11 minor injury crashes on US 60. In the same time period, KY 79 had 21 property damages, seven (7) injury crashes and three (3) fatalities. The collision locations are shown in the attached Exhibit 1.

The expected crash frequency for US 60 and the segment of KY 79 in Breckinridge County is lower than predicted for roads with similar characteristics. However, the expected crash frequency for the segment of KY 79 in Meade county is slightly higher than similar roadways. To address traffic safety concerns during the construction of the proposed sites, Green River Solar, LLC will ensure that a traffic management plan will be developed by the contractor. Several of the traffic safety techniques to be used are described below.

2.2 Construction of Traffic

2.2.1. Traffic During Construction of Proposed Sites

The entrances of the proposed sites will provide ingress and egress during construction for each solar site. The construction activities are expected to take twelve to twenty-four months. During this time, a temporary increase in traffic is anticipated near the vicinity of the proposed sites. The increased traffic is associated with travel of construction workers, deliveries of construction equipment and material, and delivery of solar panel components and equipment. The construction workers will create trips along the roadways in the morning and evening as they come and go from work. During the construction phase, 150 to 300 workers will be employed for the project. At the beginning of construction, heavy machinery will be delivered to the sites. Throughout the construction process deliveries of equipment and materials will occur on trailers, flatbeds, or other large vehicles periodically at various times of day. Green River Solar, LLC will

inform and obtain permits from State and local road authorities as needed for Class 21 vehicle transport to the sites. Road officials will help identify any special transportation requirements for heavy trucks during construction (e.g., the need to avoid existing bridges, the need to reinforce or ramp over existing bridges for which there is no detour, detours of highway traffic, or temporary closures). Green River Solar, LLC will comply with all permit requirements and will coordinate with designated road officials as needed.

2.2.2. Traffic Safety Precautions during Site Construction

Appropriate signage and traffic guidance will be utilized to increase driver safety and reduce the risk of any vehicle accidents. Long term lane closures are not anticipated during the construction of the solar facilities. However, when construction work nears the roadways or when the larger deliveries arrive, temporary lane closures may be used for the safety of the traveling public and the construction workers. For example, flaggers may temporarily stop highway traffic to allow a delivery truck and trailer to safely turn into the site. *Construction Work* signs will be placed along the roadside to alert motorists that construction traffic may be present on the highway.

2.2.3. Physical Impact on Existing Road Infrastructure

The construction traffic needed for the proposed project should not significantly degrade the existing roadways. The increase in localized traffic and use of heavy trucks may wear the existing roadway around the project sites but significant damage is not expected. Green River Solar, LLC will adhere to all local and state requirements related to repair of road infrastructures following construction.

Access drives and internal roads will be constructed or improved as needed to accommodate vehicles and equipment. Internal roads will be compacted gravel, which may result in an increase in airborne dust particles. During construction, water may be applied to internal road system to reduce dust generation.

Intersection sight distances were considered at the proposed project entrances. The sites were generally free of sight obstructions that might limit a driver's visibility. Additionally, the land topography in the project area is flat to gently rolling. Therefore, length of roadway visible to drivers is adequate for safe turning movements.

2.3. Solar Facility Operation and Maintenance of Traffic

The operation of the Green River Solar, LLC electric generation facility will mostly be un-manned with approximately 2 employees making site visits a few times a week to inspect the site, ensure proper equipment operation, and note any maintenance needs. Vehicular traffic on the project site will be limited to typical weekday work hours. Employees will drive mid or full-sized trucks and will contribute less to existing traffic than a typical single-family home; operation of this solar facility will not significantly increase traffic in the project vicinity.

2.4. Traffic Summary and Conclusion

Traffic operation on two-lane rural highways is unique based upon the geometric and traffic characteristics of each road. Therefore, the level of service is derived through investigating travel speed, delay (vehicles following slower vehicles), and capacity utilization. However, the primary roadways in this project area – US 60 and KY 79 – have very low daily traffic numbers. In fact, the capacity for a two-lane rural highway will be around 2,800 passenger cars per hour, both directions, under ideal conditions¹. The existing average daily traffic on these roads is far less than the capacity. Even though the traffic in the project vicinity is predicted to increase during the construction phase of the project, there is so much excess capacity that this roadway system will continue to perform at a very high level of service. This includes daily morning and evening peaks as construction workers enter and exit the project site and periodic delivery of construction materials and equipment. Also, Green River Solar, LLC will ensure that a traffic management plan will be developed by the contractor. This plan will describe measures to address highway traffic impacts and any noise concerns due to construction activities.

During construction, appropriate signage and traffic guidance will be used as necessary to ensure driver safety. Significant damages to existing roadway infrastructure are not expected.

Solar farms are not highway-traffic generators. Therefore, during the operational phase of this solar facility, there will be no significant increase in traffic and there will be very little, if any, impact to the existing road system.

3.0 Fugitive Dust Impacts

Land disturbing activities associated with the proposed project may temporarily contribute to airborne materials. To reduce wind erosion of disturbed areas, appropriate revegetation measures, application of water, or covering of spoil piles may occur. In addition, any open-bodied truck transporting dirt will be covered when the vehicle is in motion. The size of the project site, distance to nearby structures and roadways, combined with vegetative buffers along the property boundaries and fencerows will aid in managing off sites dust impacts. Internal roads will be compacted gravel, which may result in an increase in airborne dust particles during dry conditions and when internal road traffic is heavy. During construction activities water may be applied to the internal road system to reduce dust generation. Water used for dust control is authorized under the Kentucky Pollutant Discharge Elimination System (KYDES) as a non-stormwater discharge activity, which will be required for the proposed project.

¹ NCHRP 825 method for highway capacity

4.0 Impacts on Existing Railways

One CSX rail line passes through the project corridor. The information collected from CSX shows that one freight train passes from 6 a.m. to 6 p.m. and another from 6 p.m. to 6 a.m. every day. The rail track consists of one main line and one siding. (The railway spur does not appear to be utilized.) The typical speed range over crossing ranged from 10 mph to 40 mph. The construction of this solar site will not be using railways for any construction or operation activities.

Additional roadway traffic created during the proposed construction will not have any impact to the CSX Railway. Railway impacts to construction traffic are anticipated to be very minimal with only sporadic delays when the railway is active. Likewise, there will be no railway impact during the operational phase of this solar site. There are not anticipated damages to existing railroad infrastructure.

Signature of Professionals



Eddie Mesta, P.E.

Director

Integrated Engineering, PLLC, operating as PRIME AE Group, Inc.

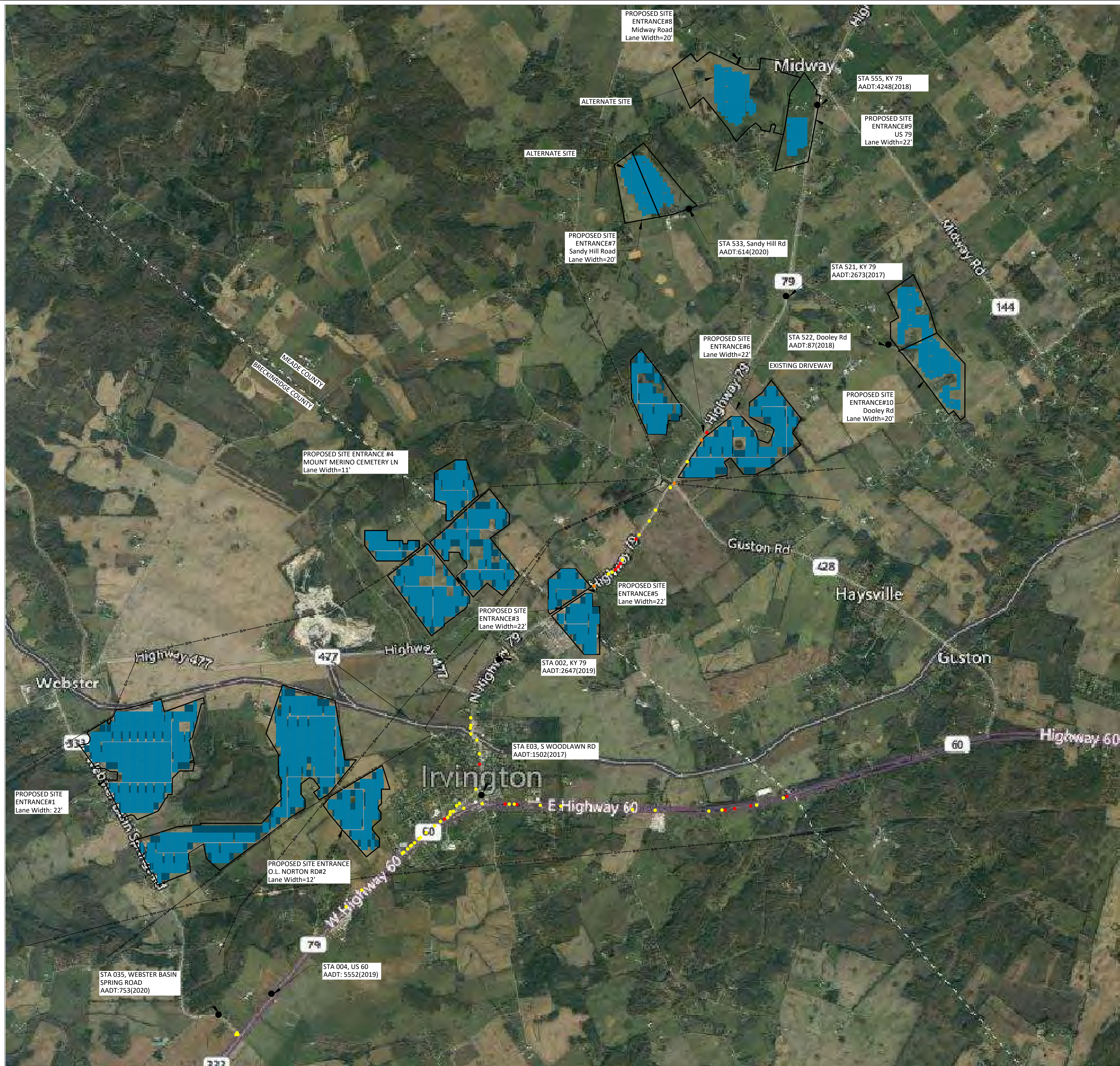
A handwritten signature in black ink that reads "Jeff Jasper".

Jeff Jasper, P.E.

Engineer Director

Professional Engineer License Kentucky PE#20181

JK4 Consulting, LLC



LEGEND			
	FENCE LINE		OVERHEAD ELECTRIC
	COLLISION WITH MINOR INJURY		AADT MONITORING STATIONS
	COLLISION WITH PROPERTY DAMAGES ONLY		COLLISION WITH FATALITIES

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 Date & Time: Jun 18, 2021 2:28:05pm
 User Name: jflatt



PROJECT: SEBREE SOLAR SITE
 ASSESSMENT
 IRVINGTON, KY
 CLIENT: ECT, INC.
 3399 VETERANS DRIVE
 TRAVERSE CITY, MI 49684

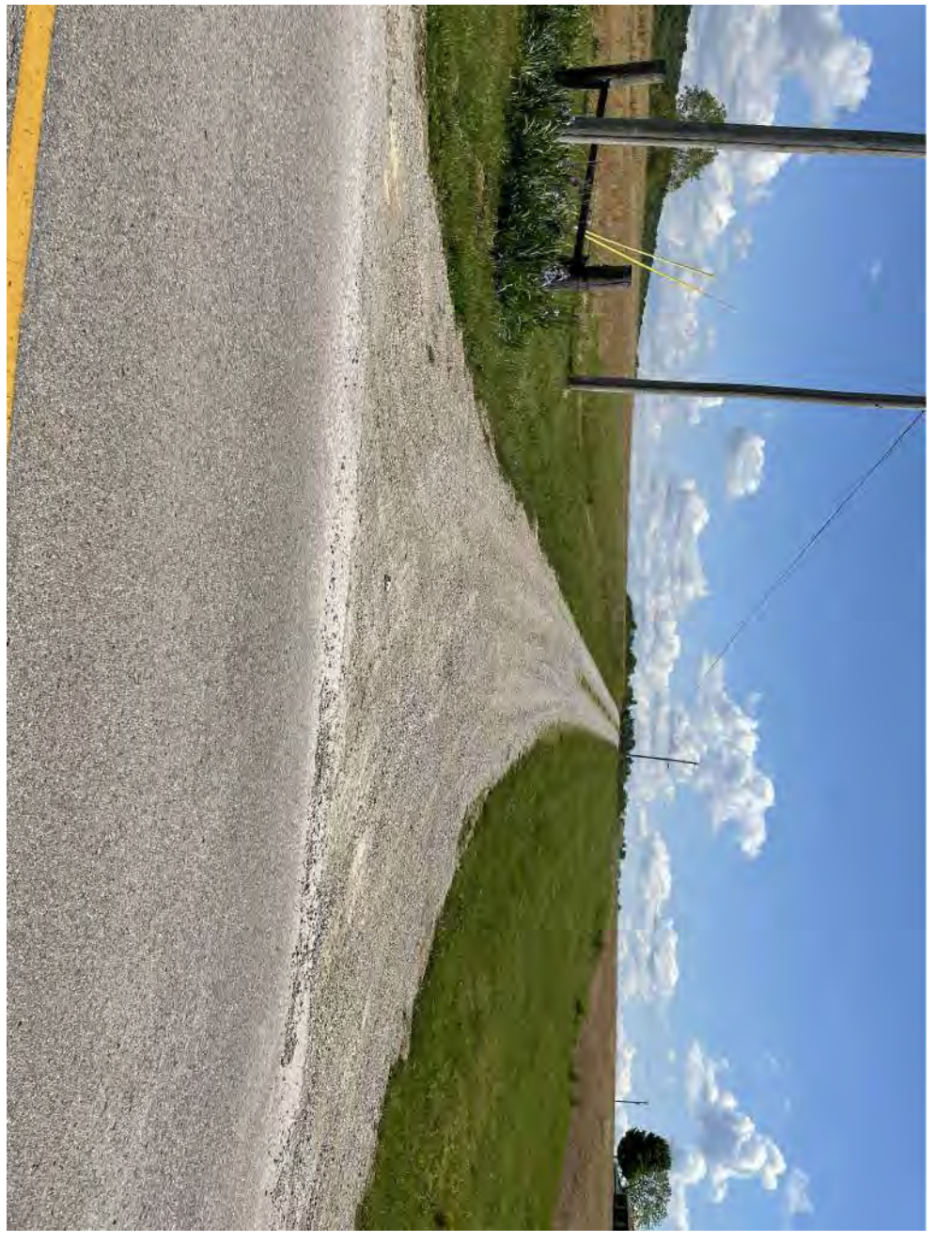
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 DATE: JUNE 2021
 DRAWN BY: NHC
 CHECKED BY: EHM

DESCRIPTION OF REVISION

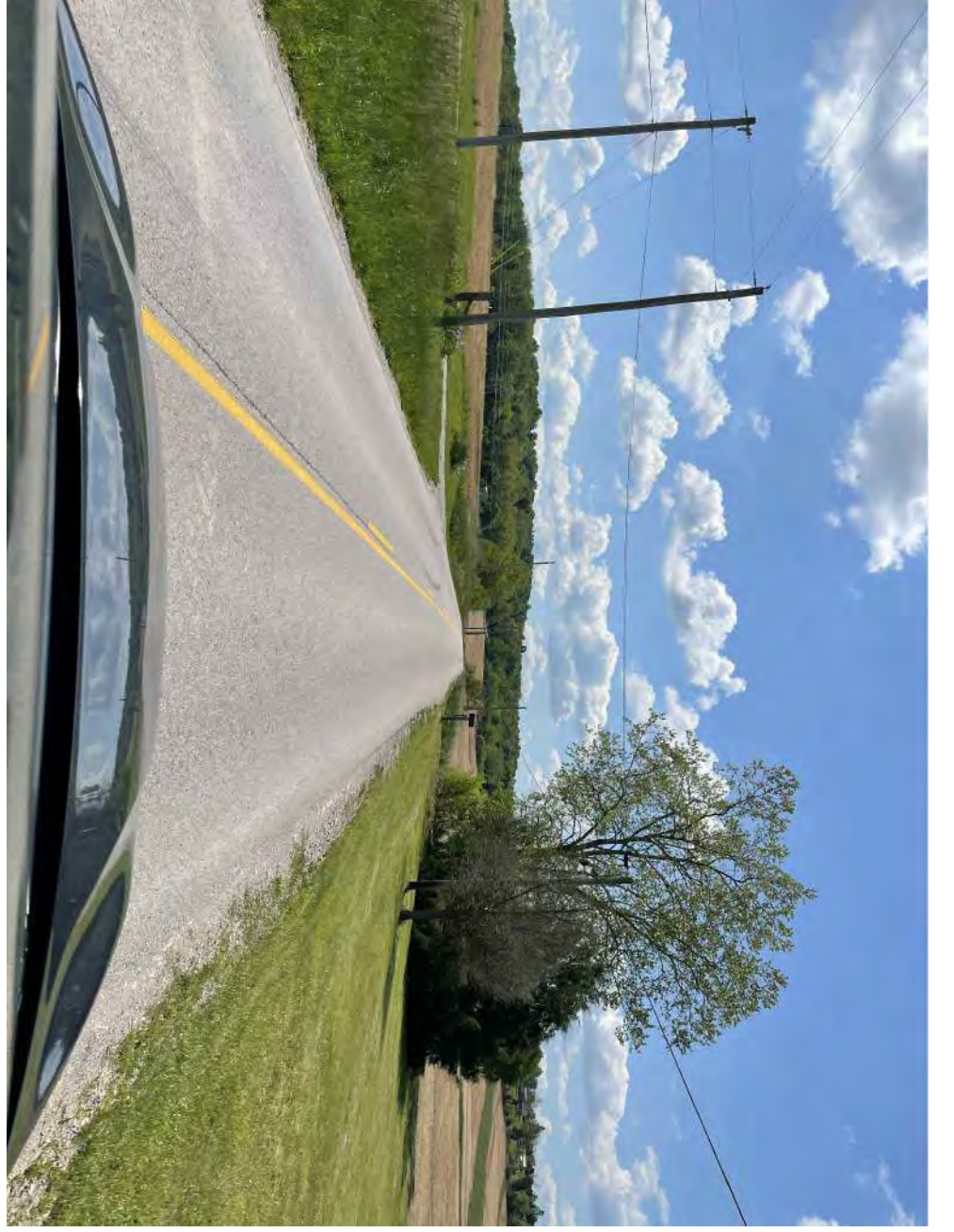
Site Exhibit - 1

SHEET NO.
1

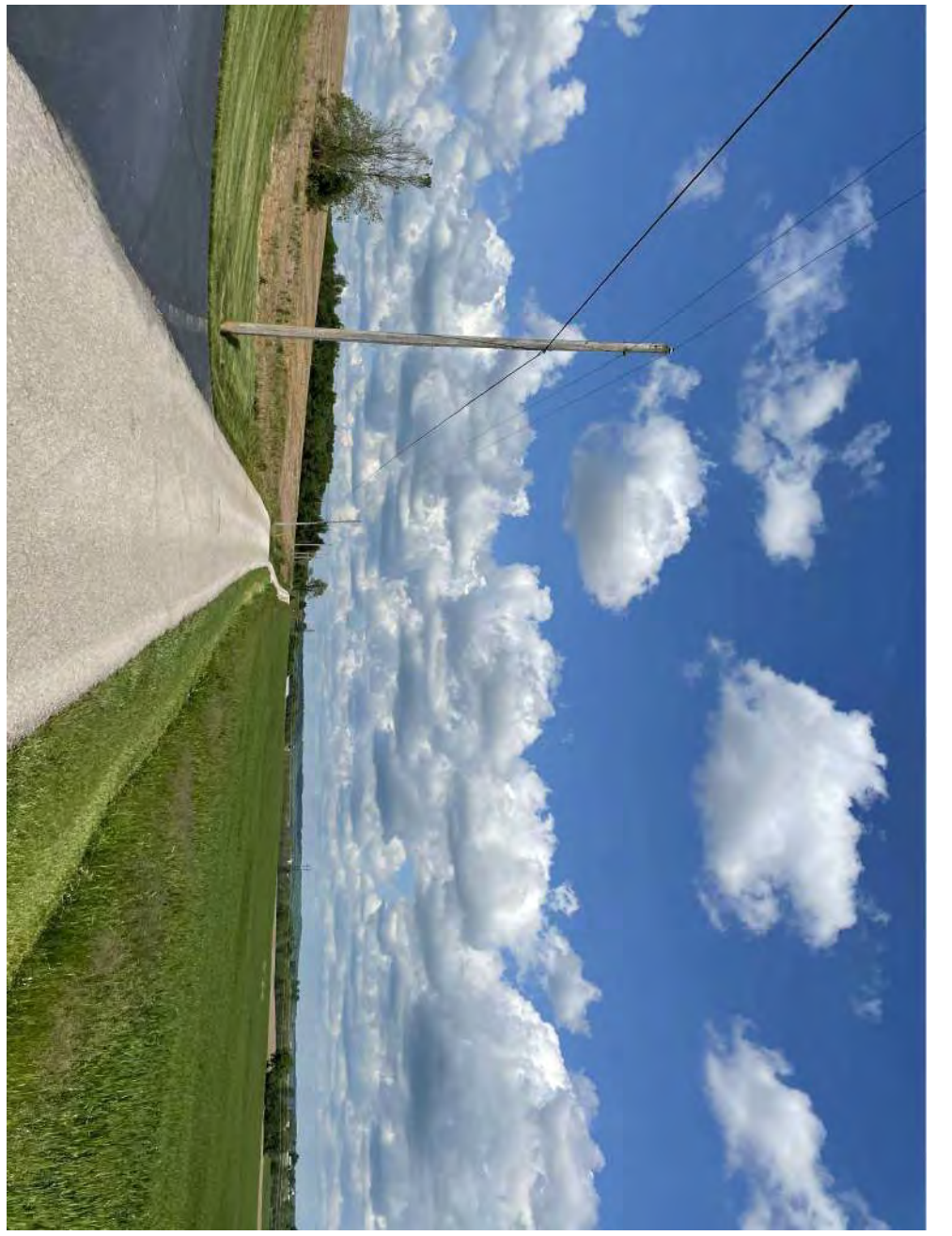
SEAL



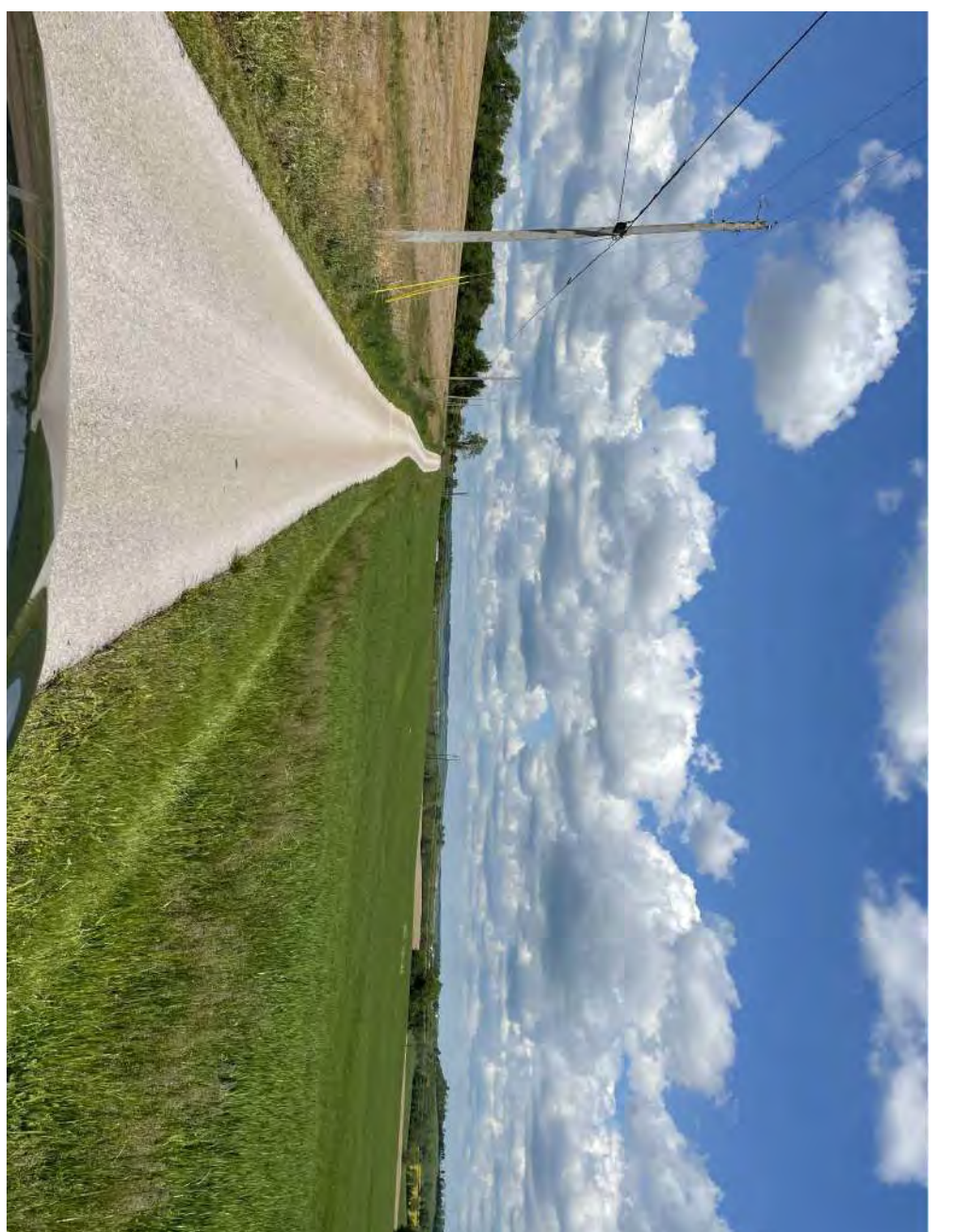
SITE ENTRANCE # 1A



SITE ENTRANCE # 1B



SITE ENTRANCE # 2A



SITE ENTRANCE # 2B



SITE ENTRANCE # 3A



SITE ENTRANCE # 3B



SITE ENTRANCE # 4A



SITE ENTRANCE # 4B



SITE ENTRANCE # 5A



SITE ENTRANCE # 5B



SITE ENTRANCE # 6A



SITE ENTRANCE # 6B

SEAL

166 PROSPEROUS PLACE, SUITE 220
 LEXINGTON, KY 40509
 P (859) 368-0145 ~ F (859) 904-1538

PROJECT
SEBREE SOLAR SITE
 ASSESSMENT
 IRVINGTON, KY
 KENTUCKY
ECT, INC.
 3399 VETERANS DRIVE
 TRAVERSE CITY, MI 49684

PROJECT NO.:
 21347
 DATE:
 JUNE 2021
 DRAWN BY:
 NHC
 CHECKED BY:
 EHM

DESCRIPTION OF REVISION

Site Exhibit - 2

SHEET NO.
 2A



SITE ENTRANCE # 7A



SITE ENTRANCE # 7B



SITE ENTRANCE # 8A



SITE ENTRANCE # 8B



SITE ENTRANCE # 9A



SITE ENTRANCE # 9B



SITE ENTRANCE # 10A



SITE ENTRANCE # 10B



RAIL CROSSING-A



RAIL CROSSING-B

DESCRIPTION OF REVISION

PROJECT NO.:
21347
 DATE:
JUNE 2021
 DRAWN BY:
NHC
 CHECKED BY:
EHM

PROJECT
SEBREE SOLAR SITE
ASSESSMENT
 IRVINGTON, KY
 KENTUCKY
ECT, INC.
 3399 VETERANS DRIVE
 TRAVERSE CITY, MI 49684

166 PROSPEROUS PLACE, SUITE 220
 LEXINGTON, KY 40509
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SEAL

Site Exhibit - 2

SHEET NO.
2B

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2

Tab 11

Attachment A

Exhibit 7

Phase I Environmental

Site Assessment

(267 Pages)

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Merino Solar

*Bradenburg, Guston, Irvington, and Webster Communities
Breckinridge and Meade Counties, Kentucky*



PREPARED FOR:

Orion Renewables

155 Grand Avenue #706

Oakland, CA 94612

PREPARED BY:



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Report:

September 16, 2020



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- Attachment 1 – Site Location Map
- Attachment 2 – Parcel and Landowner Table
- Attachment 3 – 2015 & 2017 Aerial Photograph and Adjoining Properties
- Attachment 4 – EDR Area/Corridor Report
- Attachment 5 – Garfield, Guston, and Irvington 7.5 Minute USGS Topographic
Quadrangles Map
- Attachment 6 – Historic Aerial Photographs
- Attachment 7 – Interviews
- Attachment 8 – Site Reconnaissance
- Attachment 9 – Resumes of Shoener Environmental Representatives



SECTION 1 –EXECUTIVE SUMMARY

Shoener Environmental, Inc. was retained by Orion Renewables (“User”) to perform a Phase I Environmental Site Assessment (ESA) on approximately 4,948 acres of the proposed Merino Solar Project (Project). For the purpose of this report, the 4,948 -acre property will be referred to as the “Site”. Attachment 1 includes a county site location map. The Site is located within Bradenburg, Guston, Irvington, and Webster Communities in Breckinridge and Meade counties, Kentucky.

The Phase I ESA was conducted in accordance with the American Society for Testing and Materials (ASTM) E2247-16 Standard. This report describes the available reference material reviewed within the Site and 1-mile buffer. A site investigation was conducted on August 4, 2020 and August 5, 2020.

The Phase I ESA conducted for the Site has not revealed evidence of any recognized environmental conditions.

SECTION 2 – INTRODUCTION

2.1 Purpose

According to the American Society for Testing and Materials (ASTM) E2247-16 Standard, “The purpose of this practice is to provide an alternative method to ASTM E1527 for good commercial and customary practice in the United States of America for conducting a Phase I Environmental Site Assessment of forestland or rural property with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and petroleum products.”

The Phase I ESA determines if any recognized environmental conditions (REC’s) are present on the Site area. According to the ASTM Standard (1.1.1), a REC means the “presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; (3) under conditions that pose a material threat of a future release to the environment.”

2.2 Scope

This Phase I ESA includes a review of available information, an inspection of the Site, and interviews with persons knowledgeable about the Site. No quantitative laboratory testing was performed as part of this site assessment.

Interior inspection of structures including but not limited to residential dwellings, barns, sheds, garages, outbuildings was not conducted as part of this assessment.

During the course of this assessment, Shoener Environmental, Inc. undertook inquiries into the previous ownership and uses of the Site in an effort to identify any potential environmental liabilities associated with the Site.

The conclusions presented in this report are based solely upon the services described herein, and do not include any conclusions based on potential or recommended scientific tasks or procedures



beyond the scope of services described herein. The assessment is in accordance with the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 2247-16).

In preparing the report, Shoener Environmental, Inc. relied on certain information provided by state and local officials and other parties referenced herein, and on information contained in the files of state and/or local agencies available to Shoener Environmental, Inc. at the time of the site assessment. Shoener Environmental, Inc. has not attempted to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.

The regulatory database report provided is based on an evaluation of the data collected and compiled by a contracted data research company, Environmental Data Resources, Inc. (EDR). The report focuses on the Site and neighboring properties that could impact the Site. Neighboring properties listed in governmental environmental records are identified within specific search distances. The search distance varies depending upon the government record being checked. The regulatory research is designed to meet the requirements of ASTM E2247-16. The information provided in the regulatory database report is assumed to be correct and complete.

Shoener Environmental, Inc.'s site evaluation was performed in accordance with generally accepted practices of environmental consultants undertaking similar studies at the same time and in the same geographical area, and Shoener Environmental, Inc. observes that degree of skill generally exercised by environmental consultants under similar circumstances and conditions.

SECTION 3 – SITE DESCRIPTION

3.1 Location and Legal Description

The Site is 4,948 acres, located within the Bradenburg, Guston, Irvington, and Webster Communities in Breckinridge and Meade counties, Kentucky. Attachment 2 contains a table of parcels in which portions of the Site are located and Attachment 3 includes a parcel map.

3.2 Site Vicinity General Characteristics

The Site is located within a rural agricultural landscape. Multiple primary paved roads and some secondary gravel roads provide access to the Site. It is approximately 0.3 miles from Irvington, 9.3 miles northeast of Hardinsburg, and 33.0 miles southwest of Louisville. The Site is located 19.3 miles south of Interstate 64 (I-64) and 28.7 miles west of Interstate 65 (I-65). Route 60 bisects the southern portion of the Site.

3.3 Current Use of the Site

The Site is predominantly utilized as agricultural farmland for crop production (e.g., corn, soybean, and hay). It is interspersed with multiple farmsteads and residential dwellings. Residential development, including dwellings, farm outbuildings, and livestock operation areas were excluded from the Assessment.



3.4 Descriptions of Structures, Roads, Other Improvements on the Site

Property improvements include primary and secondary roads, overhead utility lines and farm access roads. Route 60 bisects the Site in the south.

Residential homes and farm structures, including but not limited to barns, silos, grain bins and outbuildings are dispersed throughout the Site.

3.5 Current Uses of Adjoining Properties

The current use of the adjoining properties is predominantly crop production (e.g., corn, soybean or hay). The crop fields are interspersed with farmsteads, residential dwellings, and disjointed woodlots (Attachment 3). The communities of Irvington and Webster are located on adjoining properties.

Liter's Inc, a quarry, is located on the adjoining property north of parcels 6 and 55. Masterson's Auto Parts & Salvage is located on the adjoining property southwest of parcel 14. Propane tanks.

SECTION 4 - USER PROVIDED INFORMATION

4.1 Environmental Liens or Activity and Use Limitations

The "User" of this report and current landowners have not reported to Shoener Environmental, Inc. the existence of environmental liens or Activity and Use Limitation currently recorded against the Site.

4.2 Owner Information

The Site is located on properties accessed through lease agreements between the User and local landowners. The current owners of the Site provided by the User are identified in Attachment 2.

4.3 Reason for Performing Phase I Environmental Assessment

Shoener Environmental, Inc. assumes that the purpose of performing this Phase I Environmental Site Assessment is to qualify for a Landowner Liability Protections (LLP) to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) liability (as per Section 6.8 of the ASTM standard).

SECTION 5 - RECORDS REVIEW

5.1 Standard Environmental Records Sources

A review of various federal, state, and tribal records or databases concerning evidence of past or existing contamination or violations of environmental regulations was ordered from EDR. The databases were searched out to 1-mile, and specified search radii meet and exceed ASTM Standard (8.2). The EDR report was compiled based on a version of the site boundary that includes parcels which were not under lease at the time of the desktop review and the site visit. For the purpose of this report, only parcels under lease are analyzed and discussed (Attachments 2 and 3). Refer to Attachment 4 for the EDR report which is dated and was reviewed on July 10, 2020.



The purpose of the database search is to identify properties, which, due to their operating characteristics, may pose an environmental liability to the subject Site as the result of a spill, leak, or discharge of regulated materials. Sites of this nature include Small and Large Quantity Hazardous Waste Generators, Underground Storage Tank (UST) facilities, and Leaking Underground Storage Tank (LUST) facilities. Among several other federal and state environmental records, the database review also identifies those properties that have been investigated by the federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS).

NPL, Delisted NPL, CERCLIS & NFRAP Sites

The National Priority List (NPL) is the USEPA database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. The Delisted NPL is the database of delisted Superfund sites. The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List contains sites which are either proposed to be or on the NPL, and sites which are in the screening and assessment phase for possible inclusion on the NPL. No Further Remedial Action Planned (NFRAP) sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require federal Superfund action or NPL consideration.

Based on the EDR Report dated and reviewed July 10, 2020, 8 database records were listed within the Site.

- Map ID 1 – **Jamie Hardesty Residence (FINDS)** – This record is listed in the Facility Index System. No violations are reported. No other information is available in the EDR report for this record.
- Map ID 2 – **Mago Construction Co LLC (FINDS, ECHO)** – This record is listed in the Facility Index System and the Enforcement and Compliance History Online database. It is classified as a Clean Air Act Stationary Source Minor discharger of air pollutants and is also an asphalt manufacturer. No violations are reported for this facility.

This record appears to be mapped incorrectly as the Mago Construction Co was observed north of parcel 6 near the Litter's Inc quarry during the site reconnaissance.

- Map ID 3 – **Unnamed Event (SPILLS)** – Bulldozer activity was reported to have caused erosion of a hillside and flooding in a neighbor's yard on May 8, 2007. The responsible party is reported to have complied and the status is listed as closed.
- Map ID 4 – **Drew Willoughby Residence (FINDS, ECHO)** – This record is listed in the Facility Index System and the Enforcement and Compliance History Online database. No further information is reported on this record.
- Map ID 5 – **Unnamed Event (SPILLS)** – Dumping and burning activity was reported on September 15, 2013. The caller reported dumping and burning of brush, furniture, wood items, and other debris. The responsible party is reported to have complied with authorities.



- Map ID A6 – **Unnamed Event (SPILLS)** – This record is identified as a suspected release. Circle K Fuel Centers reported gasoline leaking from an underground storage tank on November 26, 2012. Compliance is not reported however American Environmental was contacted for clean-up.

This record appears to be mapped incorrectly as the Circle K is located within Irvington and outside of the Site boundary.

- Map ID A7 – **Unnamed Event (SPILLS)** – This record is identified as a suspected release. Circle K Fuel Centers reported a tank test failure on September 2, 2014. Water was found leaking into two of their underground storage tanks containing gasoline. Compliance is reported and contractors were contacted to evaluate the tanks.

This record appears to be mapped incorrectly as the Circle K is located within Irvington and outside of the Site boundary.

- Map ID 8 – **AT&T Mobility – Irvington Cell Tower Engine (AIRS)** – This record is identified as a registered cell tower with a compression ignition internal combustion engine. No violations are reported for this record.

Twelve additional records were listed within 1 mile of the Site. These records can be reviewed in Attachment 4. Additionally, 1 record was geo-coded by zip-code, meaning it does not have sufficient street addresses. This record may or may not be within close vicinity to the Site.

The sites mentioned in the EDR Report (Attachment 4) do not pose a significant potential risk to the Site due to their location, nature, the general topographic setting, and the subsurface conditions which are anticipated.

5.2 Physical Setting Sources

The Site is located within the USGS Garfield, Guston, and Irvington 7.5-minute quadrangles (Attachment 5). The Site is comprised of rolling hills, with elevations ranging between approximately 540 and 780 feet above sea level.

5.3 Historical Use Information on the Property

Historical aerial imagery from 1951, 1959, 1982, 1989, 1997, 1998, 2004, 2010, 2014 and 2018 were reviewed (Attachment 6). Overall, most of the Site and adjoining properties have not undergone large land use changes and have historically been vacant agricultural lands.

The 1951 aerial image depicts the development of a quarry adjoining the northcentral portion of the site. High-voltage electrical power lines were observed bisecting the southwestern portions of the Site.

Throughout the years residential suburban development has increased the number of homes surrounding the Site. There were no large industrial activities observed on the Site.



SECTION 6 – INTERVIEWS

6.1 Interview with Owner/Site Manager

Property owner/manager interviews were conducted by Rob Schulte land agents from Orion Renewable Energy Group, LLC. The completed interview questionnaires are provided in Attachment 7.

Areas of Environmental Interest that were identified as a result of the interviews are as follows:

Stephen Robbins (parcels 46 and 47) identified an above ground storage tank on the property and noted that it has been empty for many years.

Dray Willoughby indicated a rock quarry was located on the property for a short time in the 1920's.

Delbert Walls (parcel 54) indicated that a gas well was drilled approximately 10 years ago and the well has been closed and removed.

Jerry Miles (parcel 35) indicated that there was an old inactive gas well located in the southern portion of the property. The well was inactive for over 50 years and the pipe was removed several years ago.

6.2 Interview with Local Agency Officials

An attempt was made to reach the Irvington Fire Department on August 20, 2020. No contact was made but a voicemail was left.

SECTION 7 - SITE RECONNAISSANCE

7.1 Methodology and Limiting Conditions

The site reconnaissance was conducted by vehicle and on foot. Reconnaissance was performed by driving all available, accessible roads. Sites identified during the desktop review of aerial imagery (e.g., farm dumps) were visited. Visibility was limited by vegetation. Refer to Attachment 8 for photos of the Site.

7.2 General Site Setting

Carlyle Meekins of Shoener Environmental, Inc. inspected the Site on August 6, 2020. Field conditions were clear, and temperatures were in the mid 80's.

7.3 Exterior Observations

Most of the Site was vacant, undeveloped, and uninhabited agricultural land consisting of rotational crops (corn, soy, and hay). Farms, outbuildings, residences, woodlots, electrical transmission lines, and utility lines were observed throughout the Site. The following items were identified within the Site boundary:



Railroad tracks run through the southern portion of the Site and bisect Parcels 6 and 55.

Miscellaneous debris piles were located on Parcels 53 and 55. These piles consisted of old farm machinery and various household debris.

An AT&T cell tower and a generator were observed on Parcel 12.

Sink holes were observed on Parcels 6, 52, and 58.

The following items were identified on properties adjoining the Site:

An auto salvage yard was observed on the adjoining property west of parcel 14.

An active rock quarry was observed on the adjoining property north of Parcels 6 and 55. Mago Construction Co LLC was observed near the quarry.

Oil and propane tank storage was observed on the adjoining property east of Parcel 12. An odor of propane was detected.

Two substations were observed during the reconnaissance. One was on the adjoining property east of Parcel 6 and the other was on the adjoining property southwest of Parcel 47.

A residence that had collapsed was observed on the adjoining property west of Parcel 19.

SECTION 8 – DATA GAPS

Interviews were not provided for 12 of the landowners including Ronald Barger, Malinda Board, Clayton Cornett, Dad's Farm LLC, William Ditto, Kenneth Fackler, Virginia Ryan Kasey, Joseph Millay Jr, Janet Scott, Jackie Simmons, Michael Staples and WCM LAND LLC SERIES 21. The inability to interview numerous property owners/managers is considered a data gap. However, in concert with the rest of the Assessment, the inability to conduct interviews with all property owners/managers does not affect our ability to identify recognized environmental conditions. However, in concert with the rest of the assessment, historical aerial imagery review, and the site visit, the inability to conduct interviews with all property owners/managers does not affect our ability to identify recognized environmental conditions in connection with the Site.

The inability to interview a local agency official is also considered a Data Gap. However, it does not impact our ability to render a professional opinion regarding environmental conditions at the Site.

Minor data failures (historical data gaps) were identified during the research of the historical documents for the Site area. Documentation was available as early as 1951 and historical information was missing from 1951-1959, 1959-1982 and 1982-1989 as well as for various shorter periods. The historical data gaps are not believed to impact our ability to render a professional opinion regarding environmental conditions at the Site.



These data gaps are not significant because the other sources of information that were consulted consistently show that the site is dominated by agricultural farmland with farmsteads and residential dwellings. The other sources of information were adequate to identify areas of environmental interest and provide an opinion of their impact on the site.

SECTION 9 – FINDINGS

Prior to conducting the site reconnaissance, areas of environmental interest were identified through findings in the EDR report, current and historical aerial imagery, and landowner interviews. Aerial imagery was analyzed for areas of environmental interest where possible RECs or de minimis conditions could be located such as any indications of dumps or debris piles, irregularities in the vegetation, jeep trails, etc. The identified areas of environmental interest included:

- Miscellaneous Debris on Parcels 53 and 55
- AT&T Cell Tower Parcel 12
- Dump/Burn Pit Used by Locals Parcel 5
- Empty Above Ground Storage Tank on Parcel 46/47
- Miscellaneous Debris on Parcels 53 and 55
- Old Rock Quarry on Parcel 55

SECTION 10 – OPINION

The assessment has identified areas of environmental interest, known, suspect, historical environmental conditions and/or de minimis conditions associated with the Site or adjoining facilities mentioned in the report.

- Miscellaneous Debris on Parcels 53 and 55 – Possible miscellaneous debris piles were identified during the desktop review and were investigated during the site reconnaissance. Debris piles were observed on Parcels 53 and 55. They contained debris and refuse such as old farm machinery and various household trash. These items could potentially be classified as a waste material, however, there was no evidence of a release of petroleum products or hazardous material. No smells, stains or stressed vegetation indicating a release were observed therefore the miscellaneous debris piles on these parcels are considered a de minimis condition.
- AT&T Cell Tower Parcel 12 – No violations were reported for this record in the EDR report. No RECs or de minimis conditions were observed at the cell tower during the site reconnaissance. The cell tower does not pose a significant potential risk to the Site.
- Dump/Burn Pit Used by Locals Parcel 5 – A citizen had made a complaint about this dump/burn pit in 2013. No RECs or de minimis conditions were observed in these locations during the site reconnaissance. The dump/burn pit does not pose a significant potential risk to the Site.



- Empty Above Ground Storage Tank on Parcel 46/47 – The landowner identified this tank as being empty for many years. No RECs were observed here during the site reconnaissance. The empty above ground storage tank does not pose a significant potential risk to the Site.
- Old Rock Quarry on Parcel 55 – The old quarry was identified by the landowner during his interview. He indicated the activity took place over a short period of time in the 1920's. The old quarry does not pose a significant potential risk to the Site.

SECTION 11 – CONCLUSIONS

I have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E2247-16 for the Site located within Bradenburg, Guston, Irvington, and Webster Communities in Breckinridge and Meade Counties, Kentucky. Any exceptions to, or deletions from, this practice are described in Section 2 of this report. This assessment has not revealed evidence of recognized environmental conditions in connection with the Site.

This Phase I Environmental Assessment Report was prepared for and may be relied upon by the User. No part of, or any copy of, this report may be used by any other person or entity, for any purpose, without the written authorization of Shoener Environmental, Inc.



SECTION 12 - SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined in Section 312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Assisted by:

Carlyle Meekins
Environmental Scientist
Shoener Environmental, Inc.

September 16, 2020

Date

Assisted by:

Jessica Noe
Environmental Scientist
Shoener Environmental, Inc.

September 16, 2020

Date

Assisted by:

Ryan Pohle
Environmental Scientist/ GIS Analyst
Shoener Environmental, Inc.

September 16, 2020

Date

Reviewed by:

Ed Shoener
Environmental Professional
Shoener Environmental, Inc.

September 16, 2020

Date



SECTION 13 – REFERENCES

Standard

ASTM International. E2247-16 - Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property, 2020.

Interviews

Jamie Barger, August 6, 2020
Richard Barger, August 6, 2020
Elsie Carmen, August 4, 2020
Kerry Kasey, August 4, 2020
Richard Lucas, August 4, 2020
Kimberly Millay, August 4, 2020
William Monin Jr, August 4, 2020
Alex Richardson, August 6, 2020
Earl Roach, August 4, 2020
Stephen Robbins, August 4, 2020
Charles Smith, August 4, 2020
Jackie Smith, August 6, 2020
Dray Willoughby, August 6, 2020
Gerlad Mattingly, September 1, 2020
Delbert Walls, September 3, 2020
Jerry Hardesty, September 1, 2020
Jerry Miles, September 1, 2020
Genieve Meador (Mike Meador), August 20, 2020
Mike Meador, August 30, 2020
Lydia Richardson (Homer Richardson), August 30, 2020
Richardson Holdings (Homer Richardson), August 30, 2020

Databases, Resources and Maps

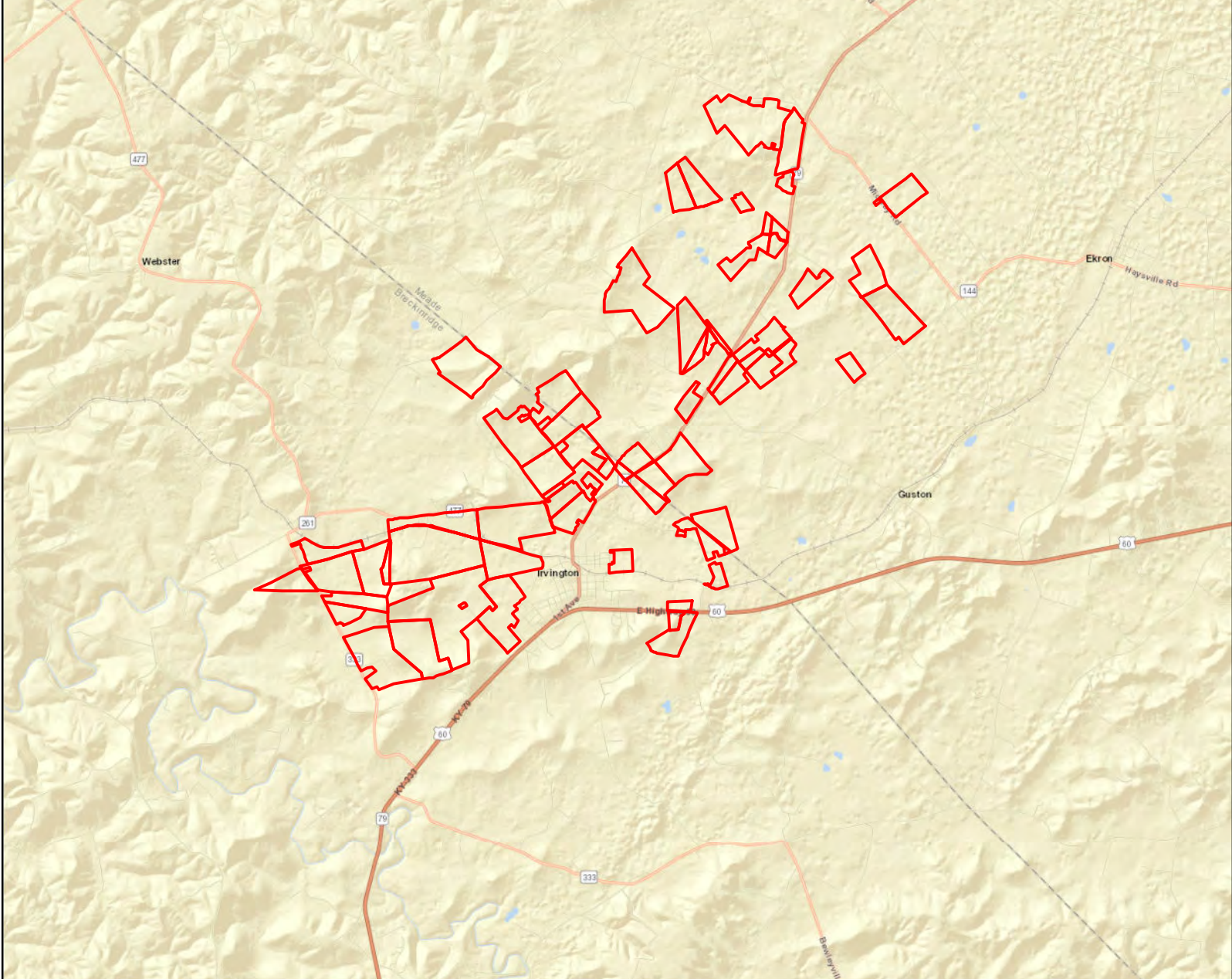
Environmental Data Resources, Inc. *EDR Area/Corridor Report, Merino Solar, Irvington, Ky 40146; July 10, 2020.*

Environmental Systems Research Institute (ESRI) ArcGIS Desktop v10.8.1

Google Earth

ATTACHMENT 1

Site Location Map



Merino Solar Site Location

Breckinridge and Meade Counties, Kentucky

Date: 8/21/2020

File: Merino_Solar_Site location.mxd

Legend

- Site 4,948 ac.

1:100,000

0 1 2 3 4
Miles

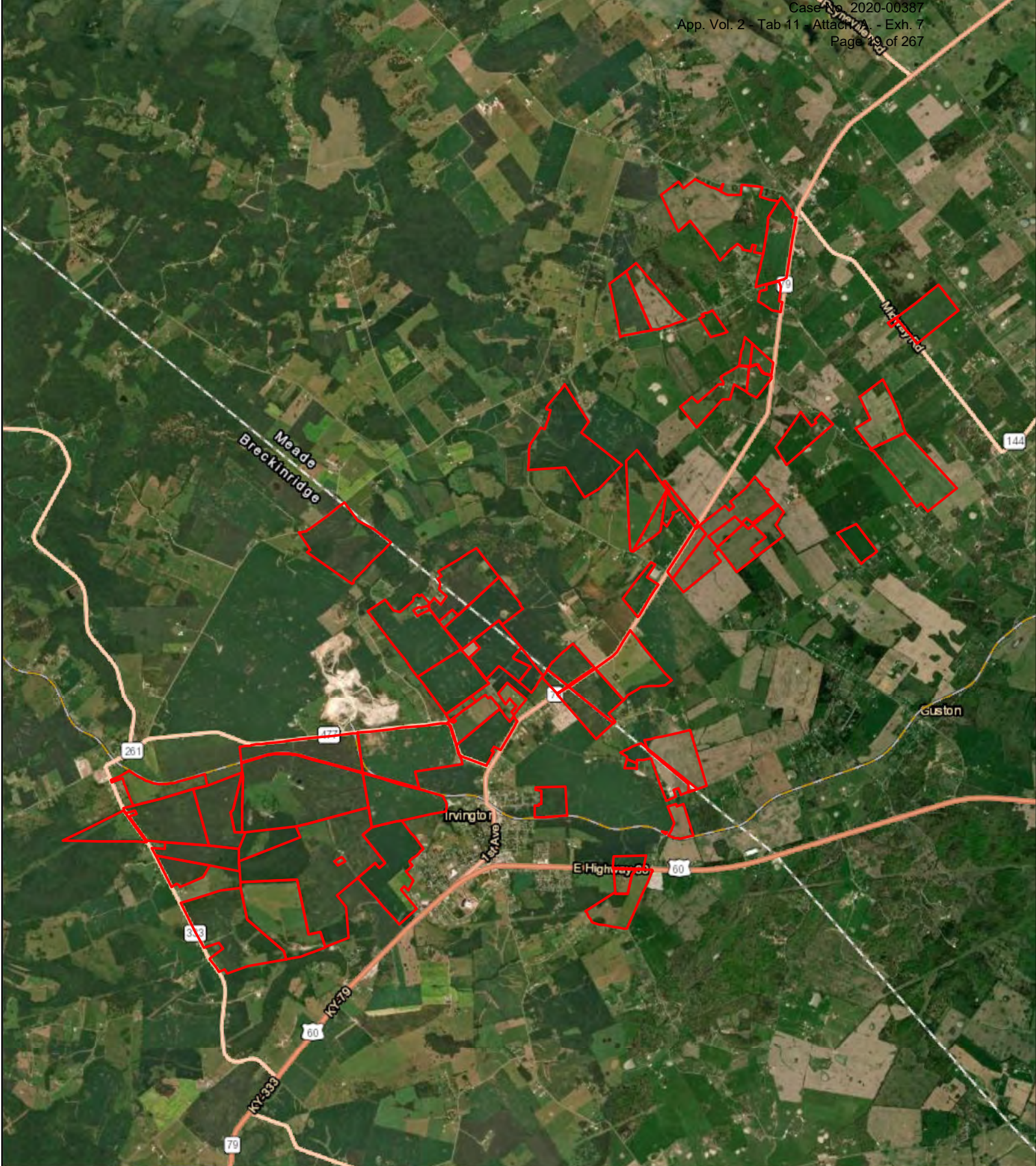


ATTACHMENT 2

Parcel and Landowner Table

ID	Owner Name	Tax ID	Mailing Address
1	Jamie Barger/Jean Barger	122-13	655 Dooley Rd, Guston, Ky 40142
2	Richard Barger	122-2	1045 Sandy Hill Rd, Guston, Ky 40142
3	Richard Barger	122-13A	1045 Sandy Hill Rd, Guston, Ky 40142
4	Ronald Barger/Betty Barger	086-00-00-102	107 Sandy Hill Rd, Guston, Ky 40142
5	Board Farm, LLC	123-4	PO Box 55, Irvington, Ky 40146
6	Malinda Board/Danny Board	122-22	1180 Hill Grove Rd, Guston, Ky 40142
7	Elsie Carman	122-15	249 Carman Lucas Lane, Irvington, Ky 40146
8	Clayton Cornett/Wilma Cornett	087-00-00-001	125 Cornett Rd, Guston, Ky 40142
9	Clayton Cornett/Wilma Cornett	087-00-00-001.03	125 Cornett Rd, Guston, Ky 40142
10	Clayton Cornett/Wilma Cornett	087-00-00-001.03	125 Cornett Rd, Guston, Ky 40142
11	Clayton Cornett/Wilma Cornett	087-00-00-001	125 Cornett Rd, Guston, Ky 40142
12	Dad's Farm, LLC	133-23	c/o Kerry Kasey, PO Box 55, Irvington, Ky 40146
13	William Ditto	133-1	301 N. 5th Street, Irvington, Ky 40146
14	Irvington Gas Company, Inc.	080-00-00-025.01	PO Box 55, Irvington, Ky 40146
15	Irvington Gas Company, Inc.	080-00-00-025.01	PO Box 55, Irvington, Ky 40146
16	Irvington Gas Company, Inc.	080-00-00-025	PO Box 55, Irvington, Ky 40146
17	Irvington Gas Company, Inc.	080-00-00-025	PO Box 55, Irvington, Ky 40146
18	Kenneth Fackler/Lois Fackler	087-00-00-009	605 Dooley Rd, Guston, Ky 40142
19	Jerry Hardesty/Carolyn Hardesty	133-3	1745 Irvington-Guston Rd, Guston, Ky 40142
20	Jerry Hardesty/Carolyn Hardesty	133A-28	1745 Irvington-Guston Rd, Guston, Ky 40142
21	Jerry Hardesty/Carolyn Hardesty	081-00-00-006.01	1745 Irvington-Guston Rd, Guston, Ky 40142
22	Jerry Hardesty/Carolyn Hardesty	088-00-00-017.01	1745 Irvington-Guston Rd, Guston, Ky 40142
23	Johnson Farm, LLC	122-25	PO Box 365, Irvington, Ky 40146
24	Johnson Farm, LLC	122-26	PO Box 365, Irvington, Ky 40146
25	Virginia Ryan Kasey	133-23A	c/o Kerry Kasey PO Box 55, Irvington, Ky 40146
26	LKK Inc	122-21	PO BOX 55, Irvington, Ky 40146
27	Richard Lucas/Cassandra Lucas	133A-1	84 Mt Merino Cemetery Ln, Irvington, Ky 40146
28	Richard Lucas/Cassandra Lucas	122-14A	84 Mt Merino Cemetery Ln, Irvington, Ky 40146
29	Merino Property LLC	133A-1A	PO Box 55, Irvington, Ky 40146
30	Merino Property LLC	122-18	PO Box 55, Irvington, Ky 40146
31	Merino Property LLC	122-19	PO Box 55, Irvington, Ky 40146
32	Gerald Mattingly	078-00-00-044.01	6255 Haysville Rd, Guston, Ky 40142
33	James Meador/Genieve Meador	096-00-00-038	1340 Dooley Rd, Guston, Ky 40142
34	Michael Meador/Betty Meador	096-00-00-039	990 Dooley Rd, Guston, Ky 40142
35	Jerry Miles/Shirley Miles	086-00-00-056	5225 Hwy 79, Brandenburg, Ky 40108
36	Joseph Millay Jr	080-00-00-009	3530 Guston Rd, Guston, Ky 40142
37	Joseph Millay Jr	087-00-00-025.13	3530 Guston Rd, Guston, Ky 40142
38	Joseph Millay Jr	079-00-00-025.01	3530 Guston Rd, Guston, Ky 40142
39	Kimberly Millay	079-00-00-026.11	3530 Guston Rd, Guston, Ky 40142
40	William Monin Jr/Jessica Monin	123-7	PO Box 402, Irvington, Ky 40146
41	Alexander Richardson	087-00-00-024.05	560 Homer Richardson Rd, Brandenburg, Ky 40108
42	Alexander Richardson/Sarah Richardson	087-00-00-024.15	280 Homer Richardson Road, Brandenburg, Ky 40108
43	Richardson Holdings of KY, LLC	086-00-00-014	560 Homer Richardson Rd, Brandenburg, Ky 40108
44	Lydia Richardson	095-00-00-038.10	1212 Midway Rd, Guston, Ky 40142
45	Earl Roach/Shirley Roach	111-37	2595 Midway Rd, Brandenburg, Ky 40108
46	Stephen Robbins/Stacy Robbins	087-00-00-024.5	7470 Hwy 79, Guston, Ky 40142
47	Stephen Robbins/Stacy Robbins	087-00-00-024.10	7470 Hwy 79, Guston, Ky 40142
48	Janet Scott	086-00-00-097	315 Payne Road, Ekron, Ky 40117
49	Jackie Simmons/Shirley Simmons	080-00-00-024	9020 Hwy 79, Irvington, Ky 40146
50	Charles Smith/Jenny Smith	123-6B	1160 N Hwy 333, Webster, Ky 40176
51	Jackie Smith/Patricia Smith	133A-1D	164 Atwill St, Brandenburg, Ky 40108
52	Stansbury Farm, LLC	111-50	PO Box 365, Irvington, Ky 40146
53	Michael Staples/Susan Staples	079-00-00-013	2340 Rhodelia Rd, Payneville, Ky 40157
54	Delbert Walls/Nancy Jean Walls	078-00-00-044	3709 Battletown Rd, Brandenburg, Ky 40108
55	Dennis Willoughby/Allison Willoughby	122-8A	PO Box 365, Irvington, Ky 40146
56	Willoughby-Basham Farm, LLC	111-52A	PO Box 365, Irvington, Ky 40146
57	Willoughby-Basham Farm, LLC	111-53A	PO Box 365, Irvington, Ky 40146
58	Willoughby-Norton Farm, LLC	123-2	PO Box 365, Irvington, Ky 40146
59	WCM LAND LLC SERIES 21	080-00-00-018	PO Box 309, Brandenburg, KY 40108

ATTACHMENT 3
2015 & 2017 Aerial Imagery and Adjoining
Properties




Merino Solar Aerial Imagery

Breckinridge and Meade Counties, Kentucky

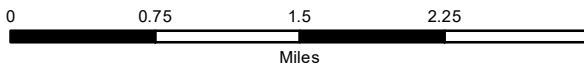
Date: 8/21/2020

File: Merino_Solar_Aerial.mxd

Legend

 Site 4,948 ac.

1:63,050



ATTCHMENT 4

EDR Area/Corridor Report

Merino Solar
Merino Solar
Irvington, KY 40146

Inquiry Number: 6116426.5s
July 10, 2020

EDR Area / Corridor Report



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Government Records Searched/Data Currency Tracking	GR-1

Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

MERINO SOLAR
IRVINGTON, KY 40146

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: State spills

A review of the SPILLS list, as provided by EDR, and dated 04/02/2020 has revealed that there are 4 SPILLS sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
Not reported Facility Status: Env. Closed Inc ID: 2258949		3 / 24	72
Not reported Facility Status: Dispatched Regional Office Inc ID: 2367421		5 / 26	73
Not reported Facility Status: Emergency Inc ID: 2354226		A6 / 25	74
Not reported Facility Status: Env. Closed Inc ID: 2383747		A7 / 25	75

EXECUTIVE SUMMARY

Other Ascertainable Records

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 02/03/2020 has revealed that there are 3 FINDS sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
JAMIE HARDESTY RESID Registry ID:: 110045078697	1745 IRVINGTON-GUSTO	1 / 20	72
MAGO CONSTRUCTION CO Registry ID:: 110008363145	HIGHWAY 477	2 / 18	72
DREW WILLOUGHBY RESI Registry ID:: 110045078679	1797 KY 477	4 / 25	73

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 04/04/2020 has revealed that there is 1 ECHO site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
MAGO CONSTRUCTION CO Registry ID: 110008363145	HIGHWAY 477	2 / 18	72

AIRS: Permitted Airs Facility Listing

A review of the AIRS list, as provided by EDR, and dated 02/14/2020 has revealed that there is 1 AIRS site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
AT&T MOBILITY - IRVI Facility Id: 2102700042	SAM DOWELL RD	8 / 27	76

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: State Leads List

A review of the SHWS list, as provided by EDR, and dated 05/15/2020 has revealed that there is 1 SHWS site within approximately 1 mile of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
IRVINGTON ELEMENTARY Facility Id: 45524 Facility Status: Closed	611 SOUTH 1ST ST	E 1/4 - 1/2 (0.323 mi.)	18 / 26	106

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities List

A review of the SWF/LF list, as provided by EDR, and dated 02/11/2020 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
IRVINGTON WWTP Status: Active Status: Terminated Facility Id: 43924	108 N MEADOW DR	SE 0 - 1/8 (0.062 mi.)	12 / 26	86
LITERS INC Status: Active Facility Id: 421	1382 KY 477	N 1/8 - 1/4 (0.179 mi.)	16 / 18	93

State and tribal leaking storage tank lists

PSTEAF: Facility Ranking List

A review of the PSTEAF list, as provided by EDR, and dated 03/01/2020 has revealed that there is 1 PSTEAF site within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
CIRCLE K #3326 Facility Id: 56707	503 W US 60	ESE 1/4 - 1/2 (0.411 mi.)	20 / 26	107

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

A review of the UST list, as provided by EDR, and dated 02/04/2020 has revealed that there are 4 UST sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
MIDWAY PETROLEUM INC Tank Status: TAC Facility Id: 59135	5140 HWY 79	E 0 - 1/8 (0.006 mi.)	10 / 3	76
IRVINGTON MARATHON Tank Status: TAC Facility Id: 56717	403 N KY 79	ESE 0 - 1/8 (0.059 mi.)	B11 / 26	82
KENTUCKY STONE Tank Status: TR8 Facility Id: 65505	KY 477	N 0 - 1/8 (0.115 mi.)	14 / 18	89
FORMER SOUTHERN STAT Tank Status: TR8 Facility Id: 65430	212 E CAROLINE ST	WSW 1/8 - 1/4 (0.181 mi.)	17 / 26	105

AST: Above Ground Storage Tanks

A review of the AST list, as provided by EDR, and dated 02/19/2020 has revealed that there is 1 AST site within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
KEY OIL CO LLC (DUPL)	10443 E HIGHWAY 60	N 0 - 1/8 (0.006 mi.)	9 / 27	76

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A review of the SWRCY list, as provided by EDR, and dated 09/13/2019 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
CITY OF IRVINGTON	109 W. CAROLINE STRE	ESE 1/4 - 1/2 (0.346 mi.)	19 / 26	107

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/23/2020 has revealed that

EXECUTIVE SUMMARY

there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the requested target property.

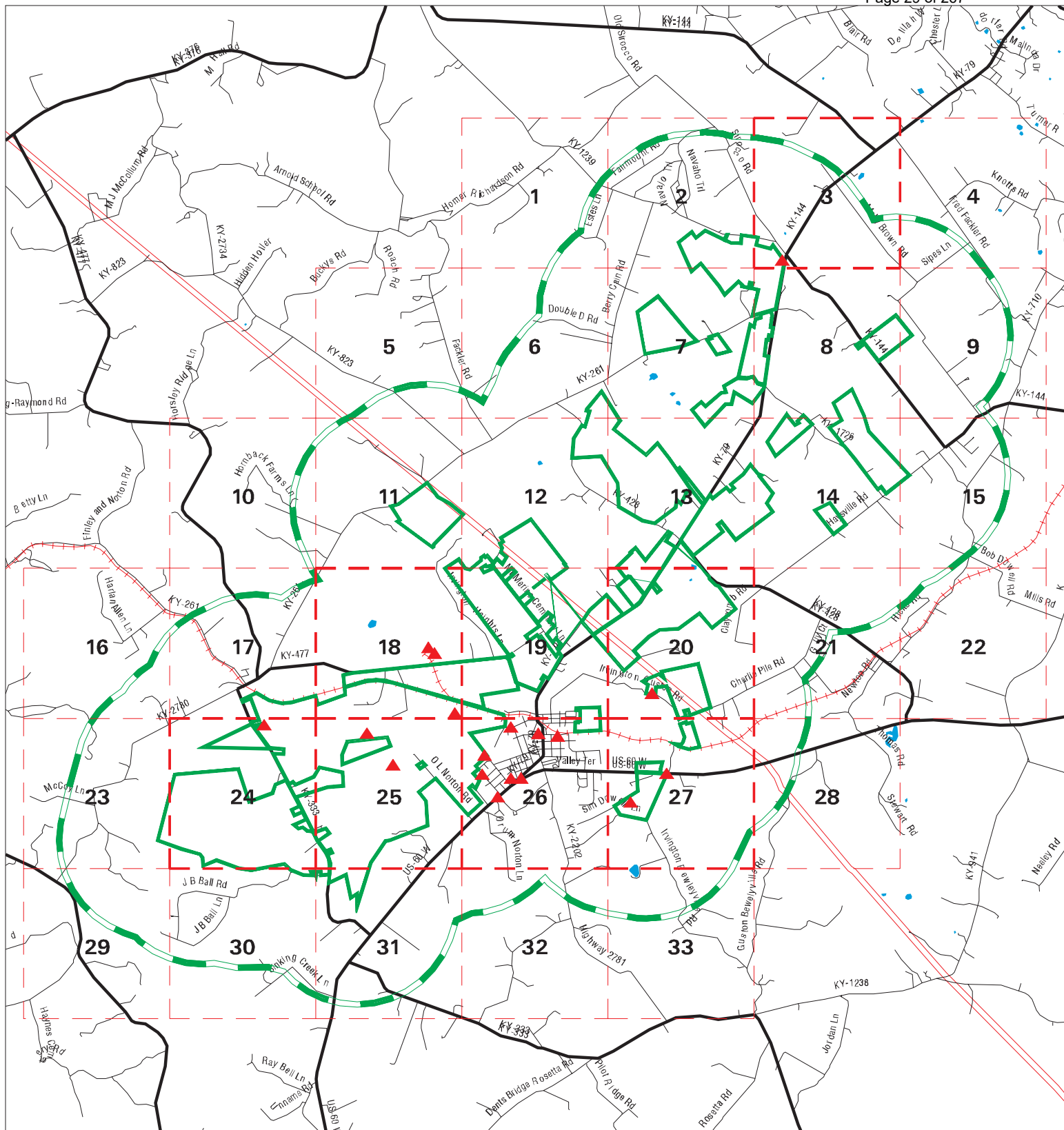
<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
CPS FARM CENTER - IR EPA ID:: KYD061559340	300 N CTR. STREET	ESE 0 - 1/8 (0.085 mi.)	B13 / 26	87
DOLLAR GENERAL STORE EPA ID:: KYR000062737	1020 WEST US HIGHWAY	ENE 1/8 - 1/4 (0.177 mi.)	15 / 26	91

MAPPED SITES SUMMARY

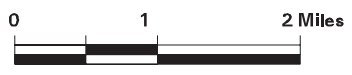
Target Property:
 MERINO SOLAR
 IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
1 / 20	JAMIE HARDESTY RESID	1745 IRVINGTON-GUSTO	FINDS	TP		
2 / 18	MAGO CONSTRUCTION CO	HIGHWAY 477	FINDS, ECHO	TP		
3 / 24			SPILLS	TP		
4 / 25	DREW WILLOUGHBY RESI	1797 KY 477	FINDS	TP		
5 / 26			SPILLS	TP		
A6 / 25			SPILLS	TP		
A7 / 25			SPILLS	TP		
8 / 27	AT&T MOBILITY - IRVI	SAM DOWELL RD	AIRS	TP		
9 / 27	KEY OIL CO LLC (DUPL	10443 E HIGHWAY 60	AST	33	0.006	North
10 / 3	MIDWAY PETROLEUM INC	5140 HWY 79	UST	33	0.006	East
B11 / 26	IRVINGTON MARATHON	403 N KY 79	UST	309	0.059	ESE
12 / 26	IRVINGTON WWTP	108 N MEADOW DR	SWF/LF	326	0.062	SE
B13 / 26	CPS FARM CENTER - IR	300 N CTR. STREET	RCRA NonGen / NLR, FINDS, ECHO	451	0.085	ESE
14 / 18	KENTUCKY STONE	KY 477	UST	609	0.115	North
15 / 26	DOLLAR GENERAL STORE	1020 WEST US HIGHWAY	RCRA NonGen / NLR	934	0.177	ENE
16 / 18	LITERS INC	1382 KY 477	SWF/LF, AIRS	944	0.179	North
17 / 26	FORMER SOUTHERN STAT	212 E CAROLINE ST	UST	958	0.181	WSW
18 / 26	IRVINGTON ELEMENTARY	611 SOUTH 1ST ST	SHWS	1705	0.323	East
19 / 26	CITY OF IRVINGTON	109 W. CAROLINE STRE	SWRCY	1826	0.346	ESE
20 / 26	CIRCLE K #3326	503 W US 60	PSTEAF, UST	2171	0.411	ESE

Key Map - 6116426.5s



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20 10:11 AM

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	1	0	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		1	1	0	NR	NR	2
<i>State and tribal leaking storage tank lists</i>								
PSTEAF	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
SB193	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		3	1	NR	NR	NR	4
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	1	NR	NR	1
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	4	NR	NR	NR	NR	NR	4
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	3	NR	NR	NR	NR	NR	3
ECHO	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP	1	NR	NR	NR	NR	NR	1
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		9	6	3	3	0	0	21

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



- ▲ Sites
- ↗ Target Property
- ↗ Search Buffer
- ↗ Focus Map - No Sites
- ↗ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



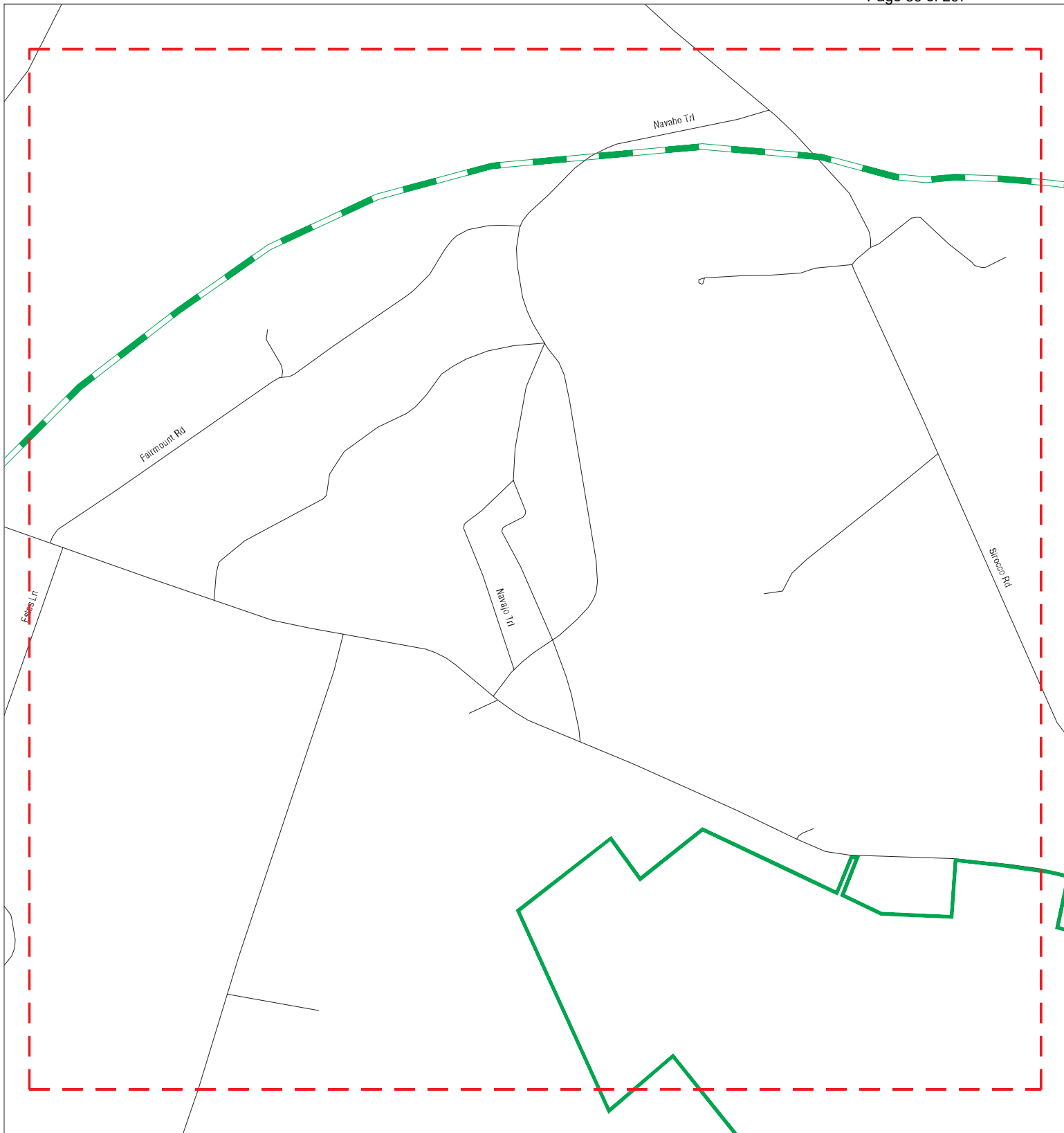
SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

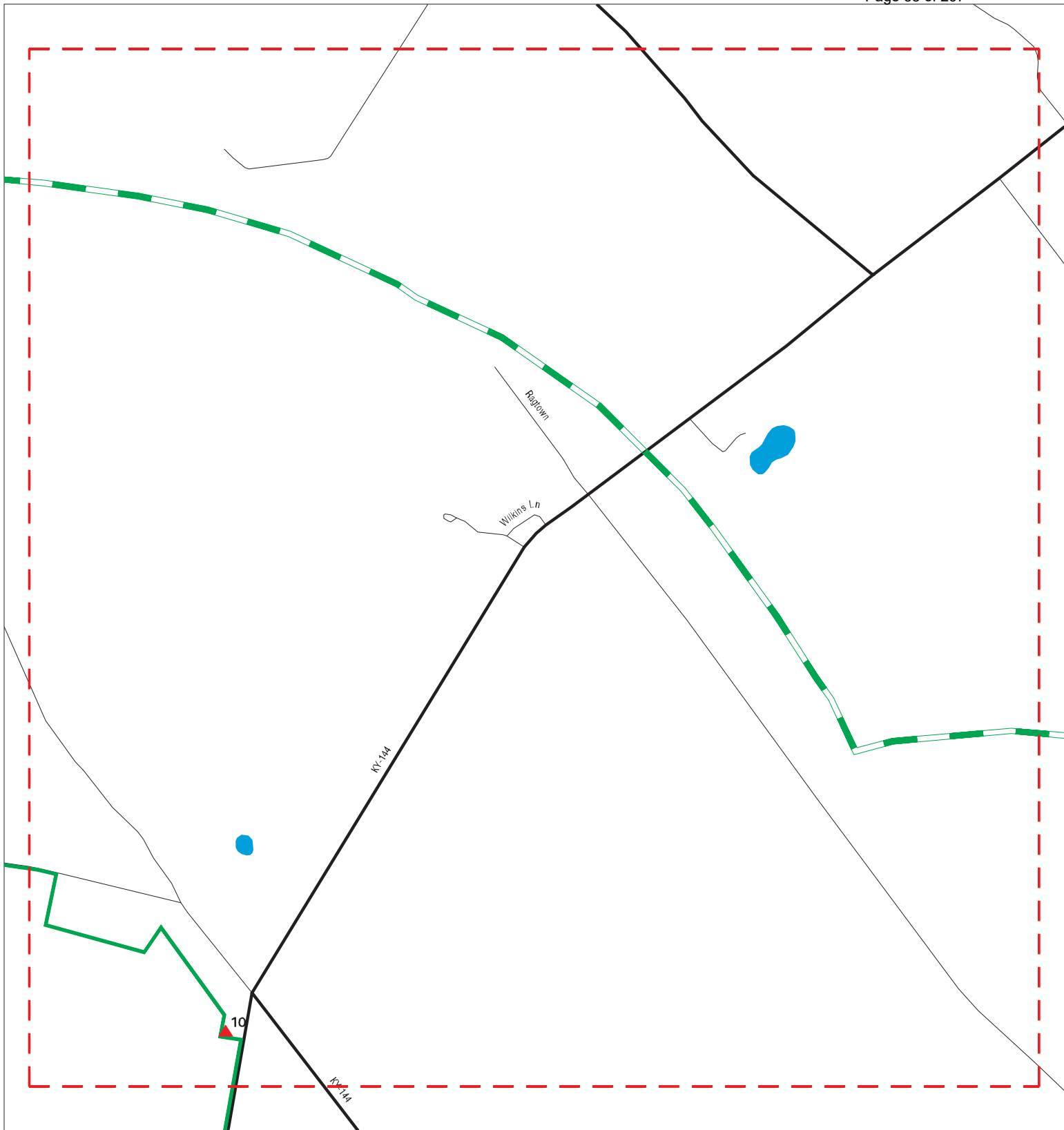
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- - - Search Buffer
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- ▬ Focus Map - No Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
10 / 3	MIDWAY PETROLEUM INC	5140 HWY 79	UST	33 0.006 East



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

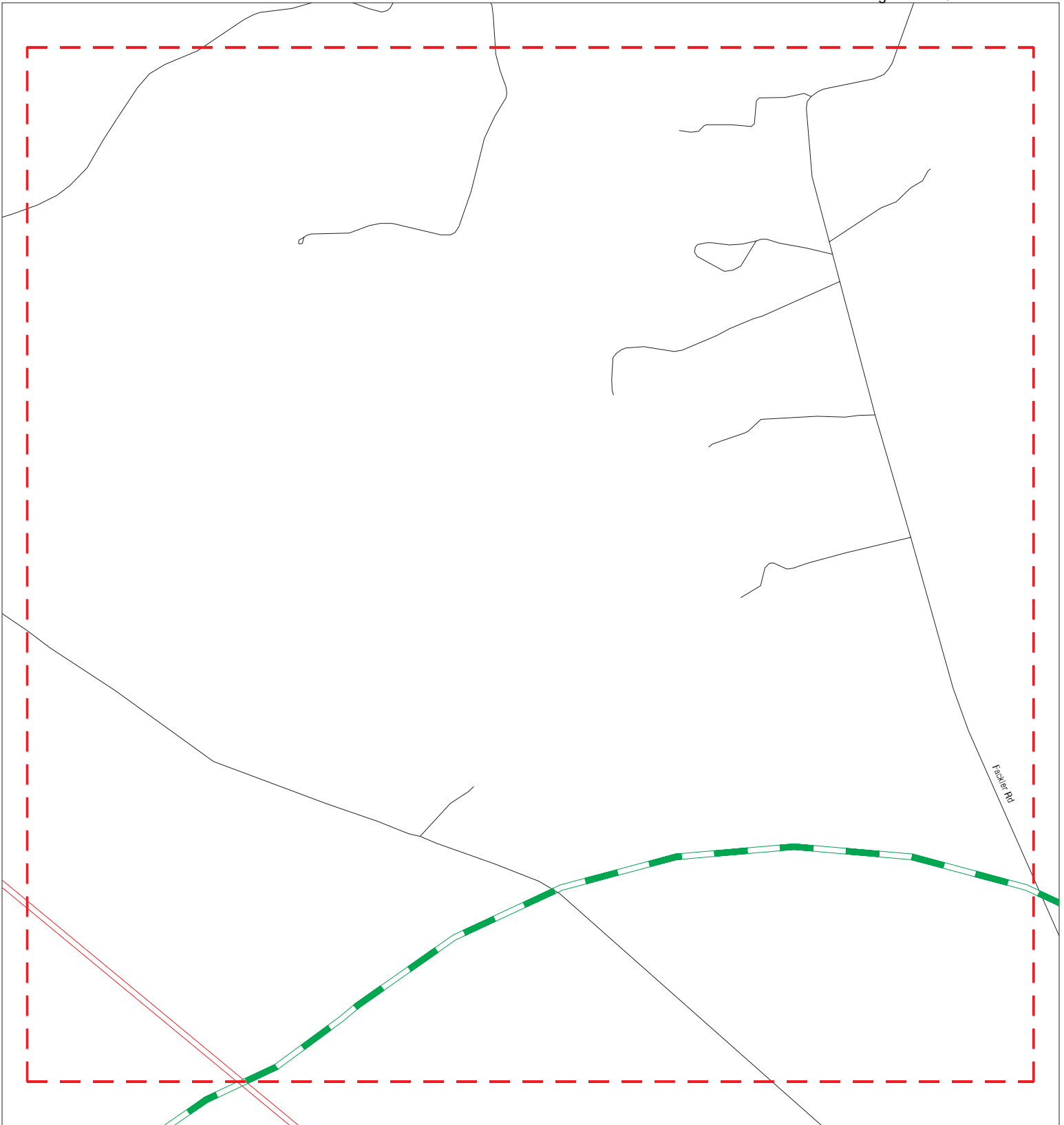
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- Target Property
- - - Search Buffer
- - - Focus Map - No Sites
- / / Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



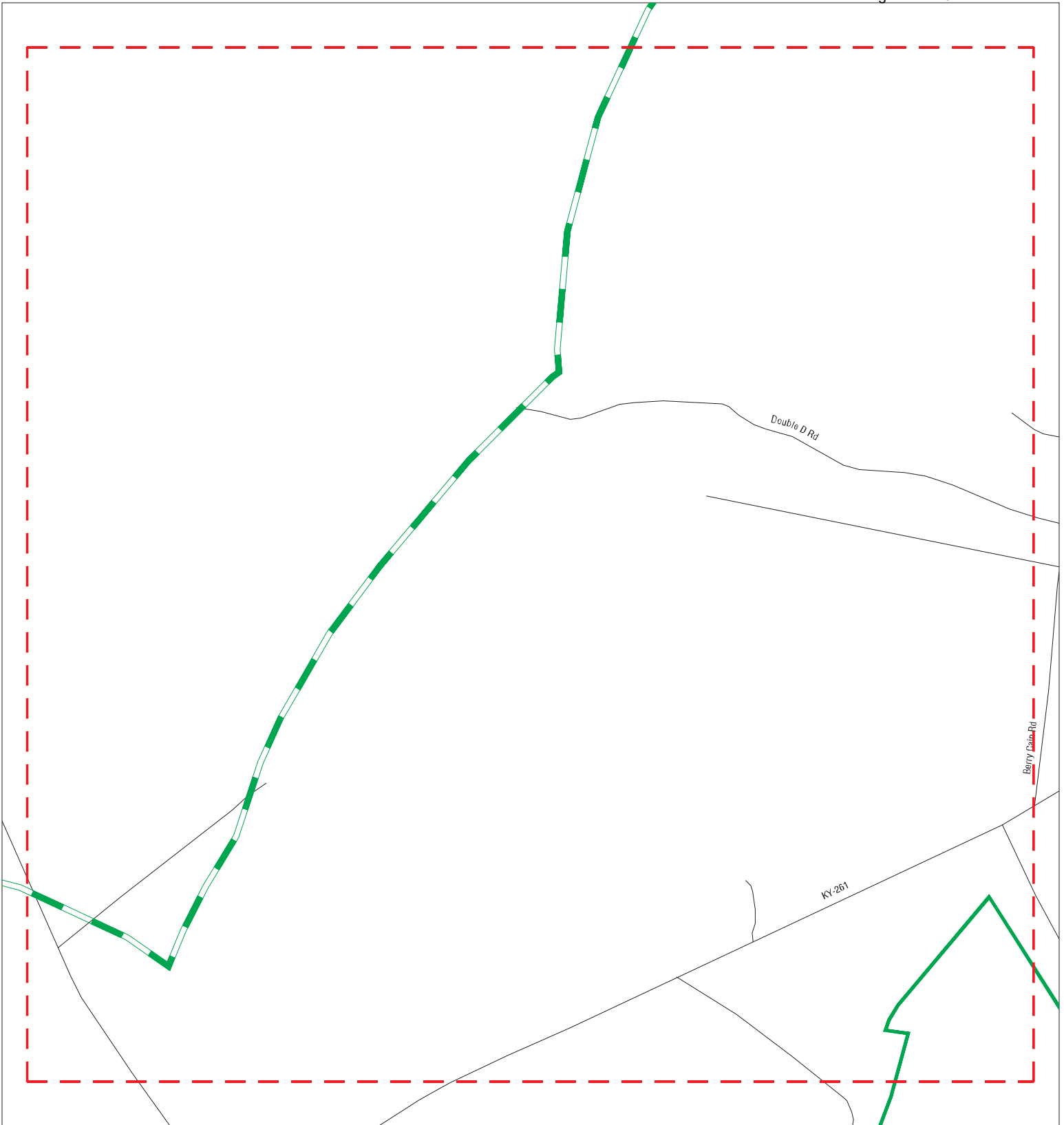
SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- Target Property
- - - Search Buffer
- - - Focus Map - No Sites
- / / Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



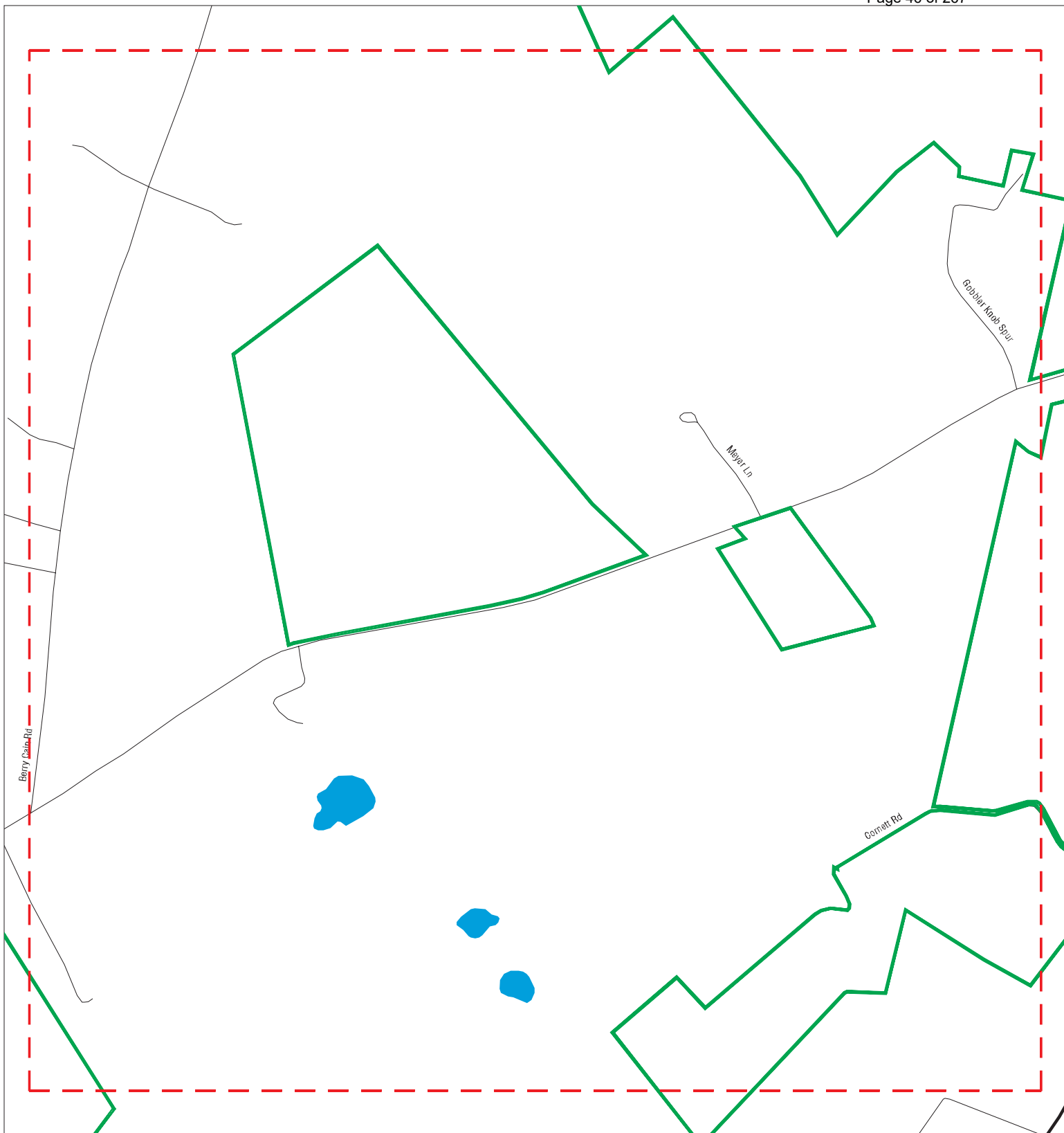
SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

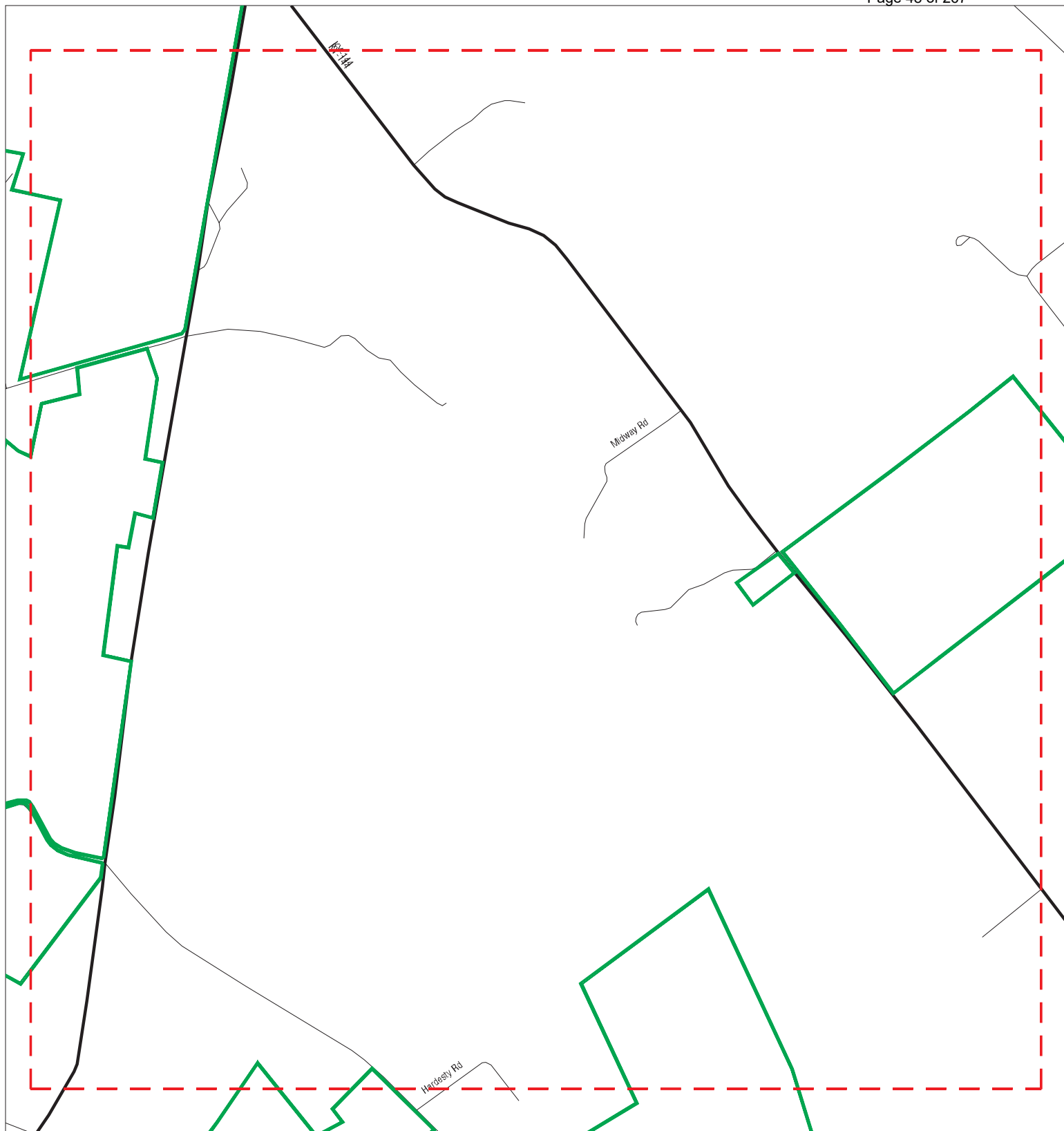
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 7

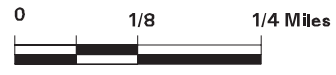
Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

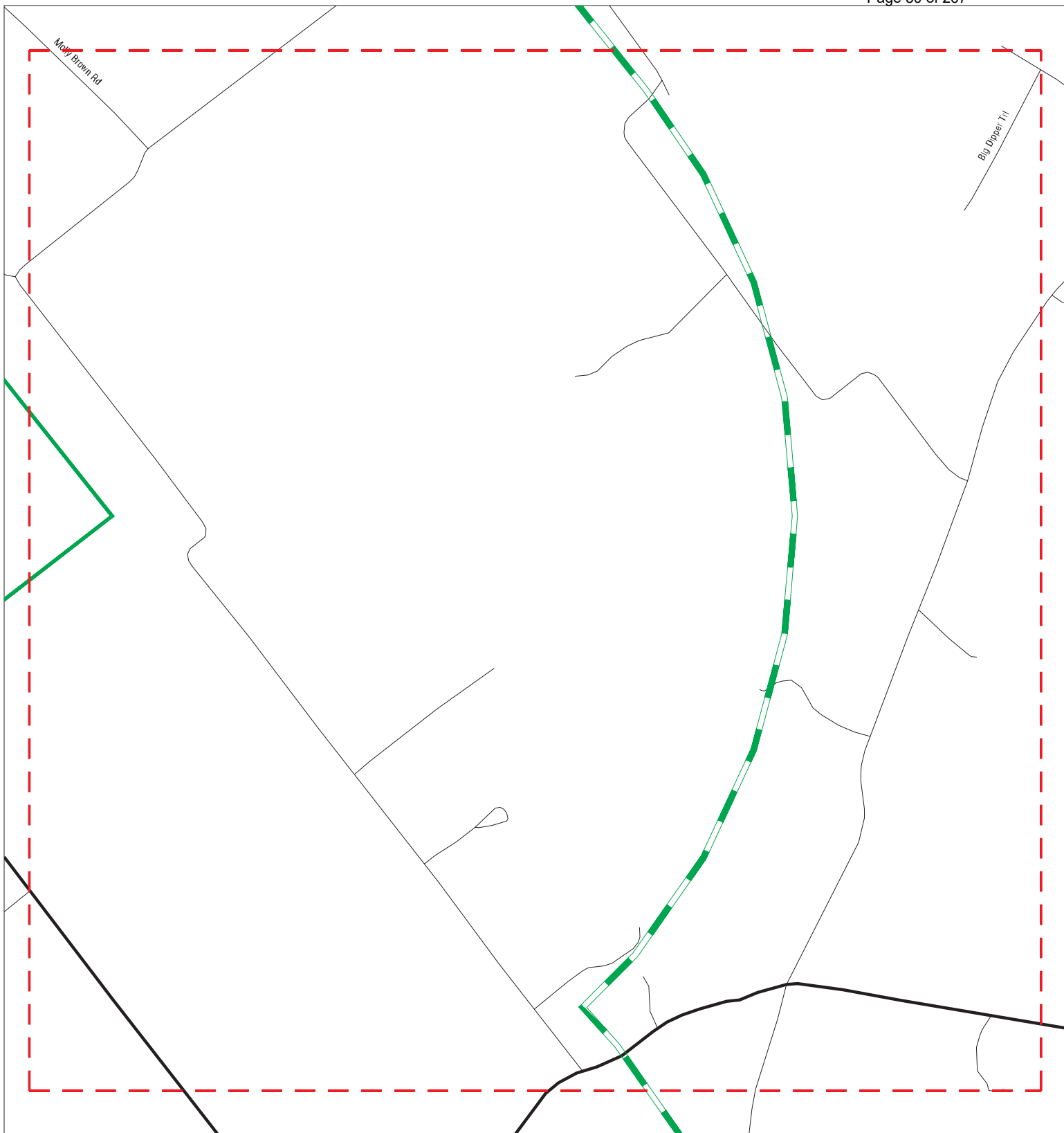
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 8

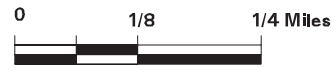
Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

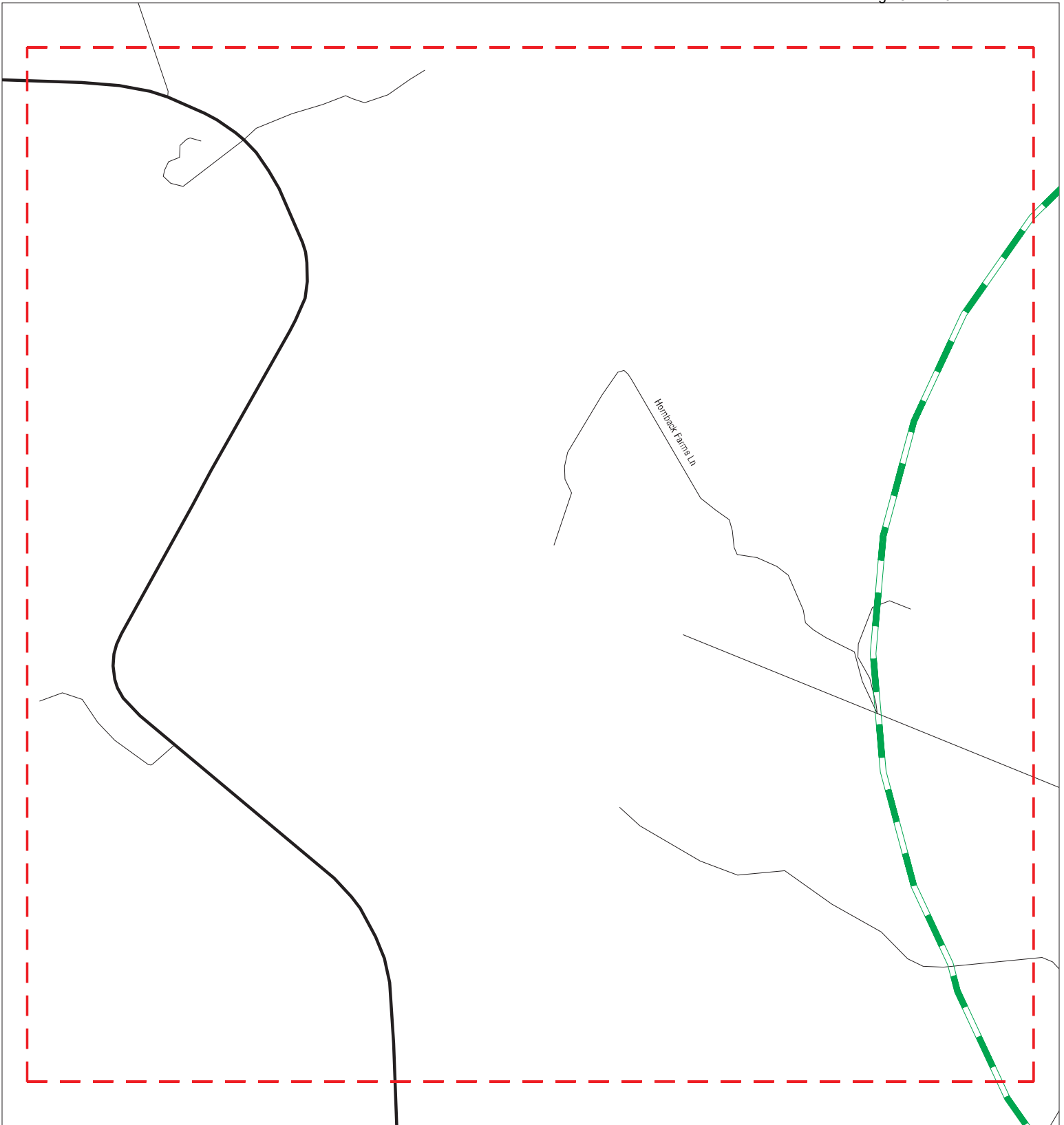
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- - - Target Property
- Search Buffer
- - - Focus Map - No Sites
- / - Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



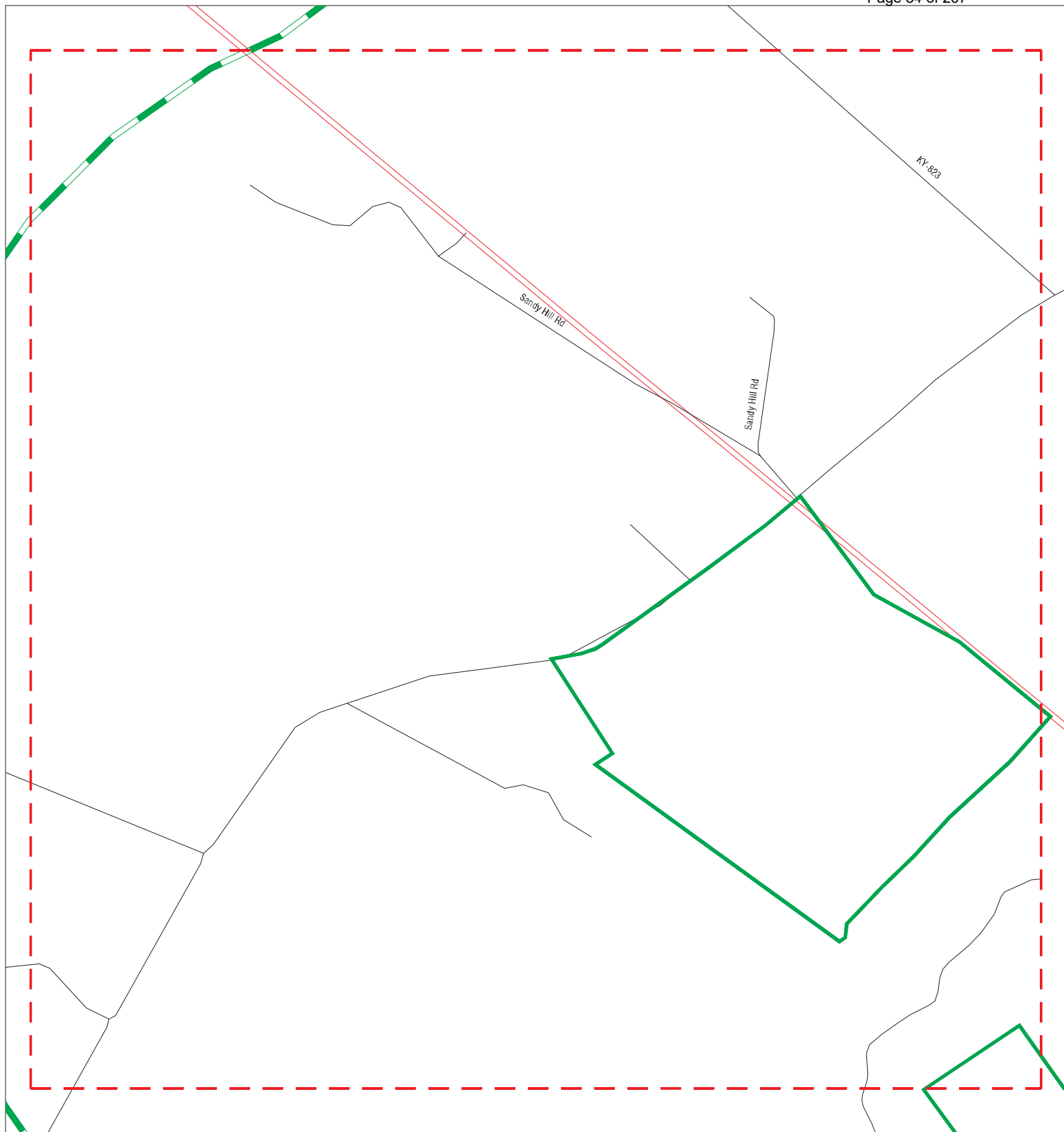
SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 10

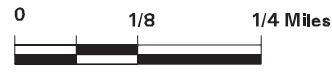
Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- ▨ National Priority List Sites
- ▧ Dept. Defense Sites
- ▨ Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

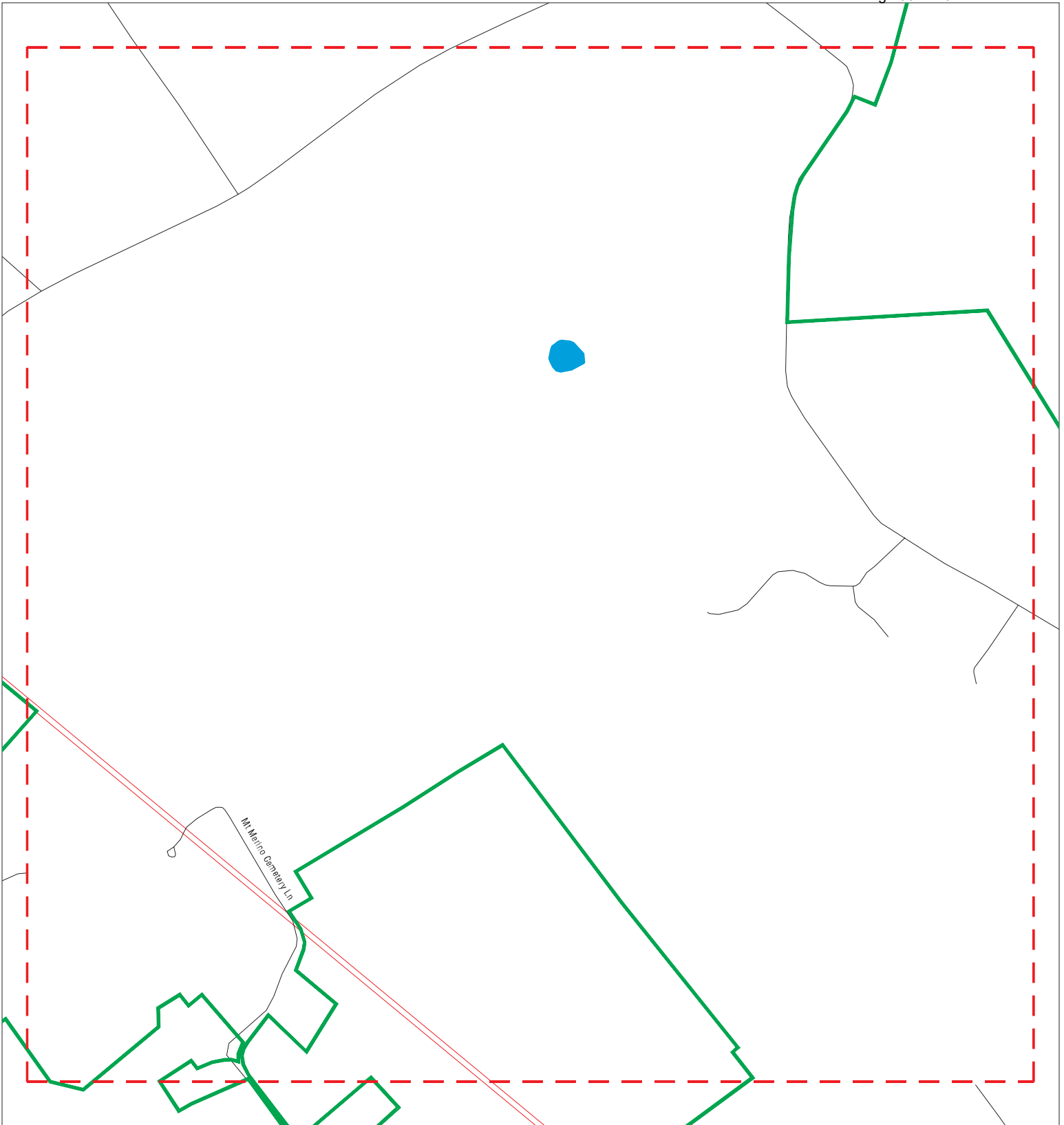
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Focus Map - No Sites
- Indian Reservations BIA



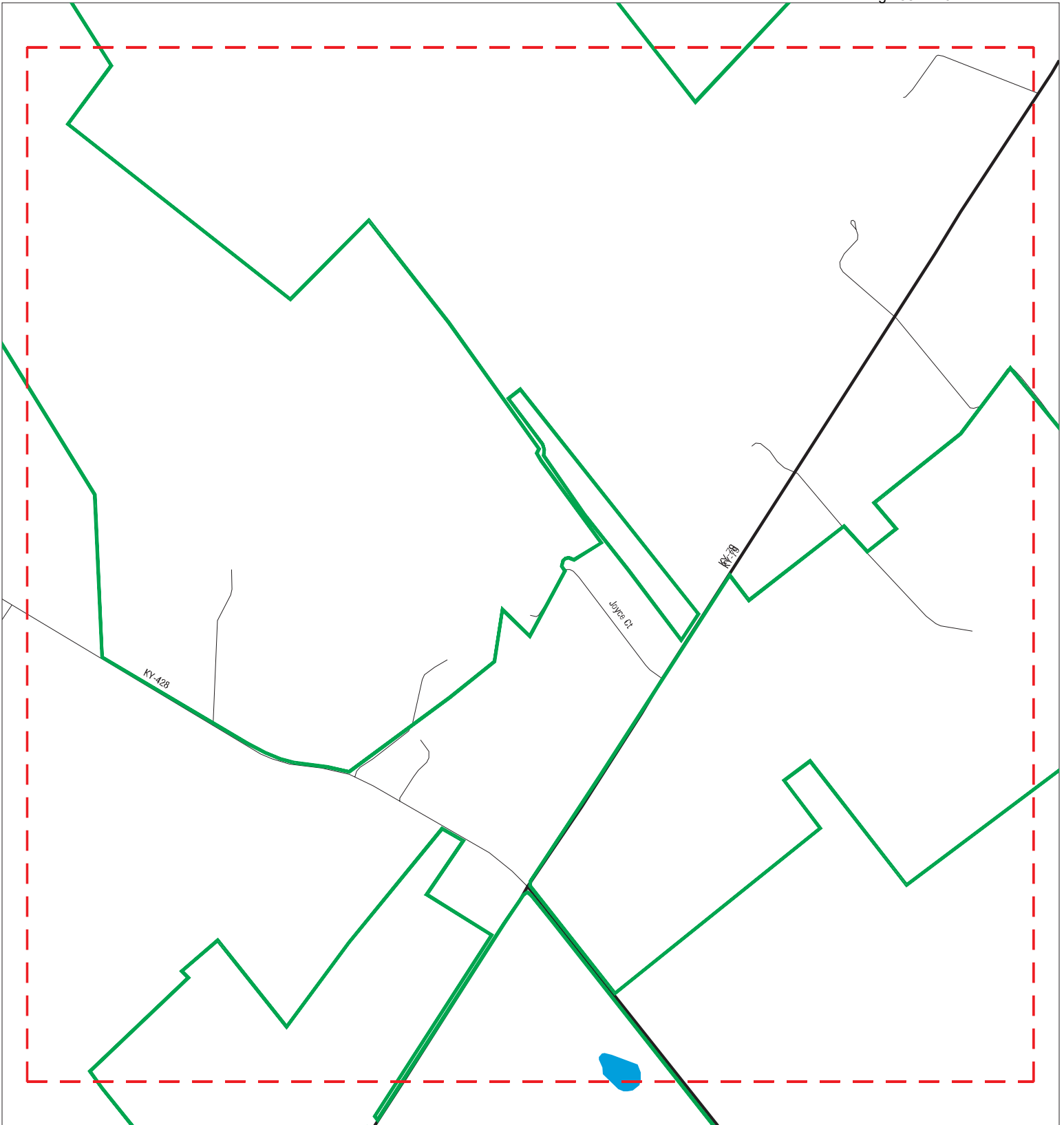
SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



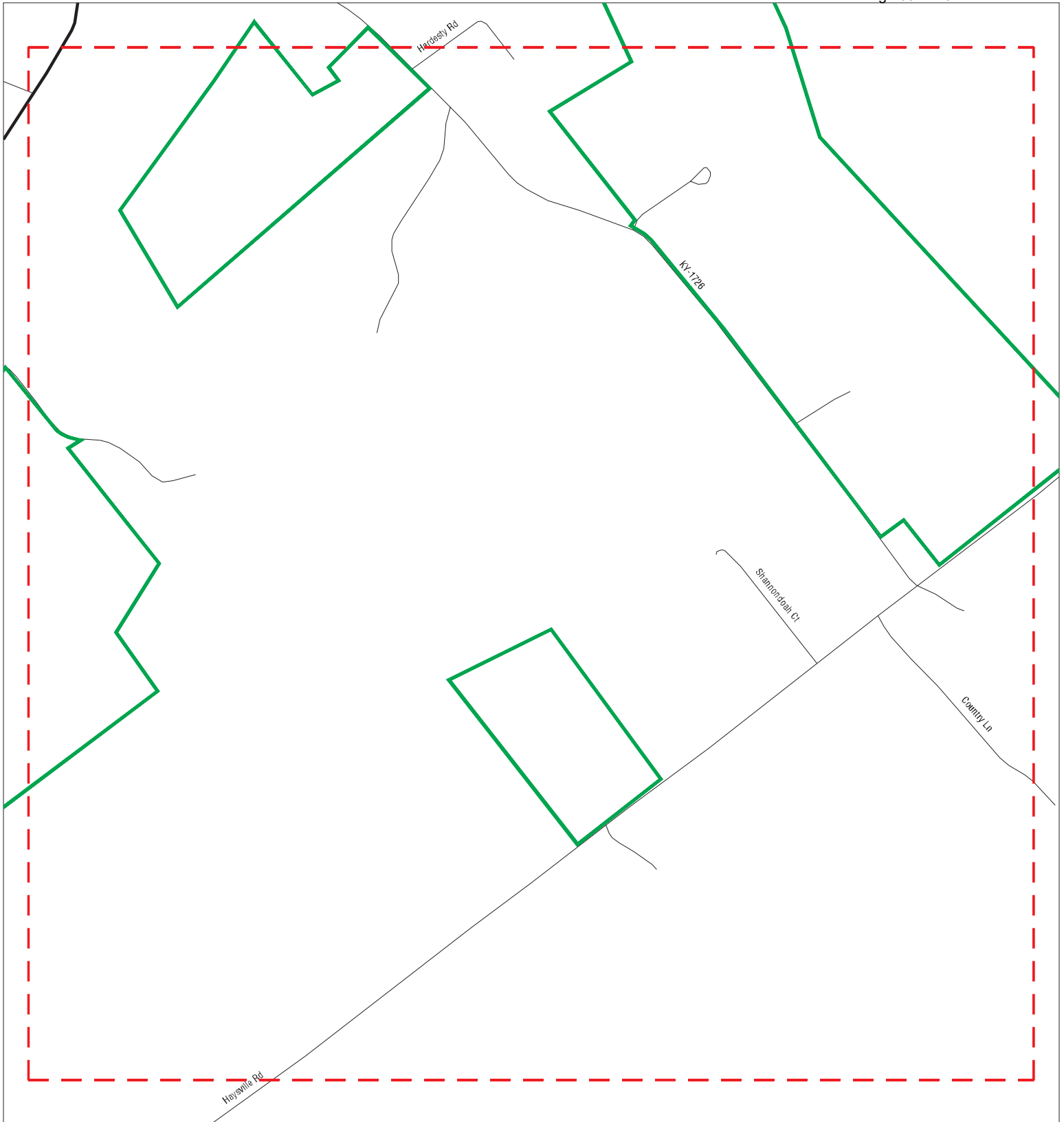
SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------

MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- ▬ Focus Map - No Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 15

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



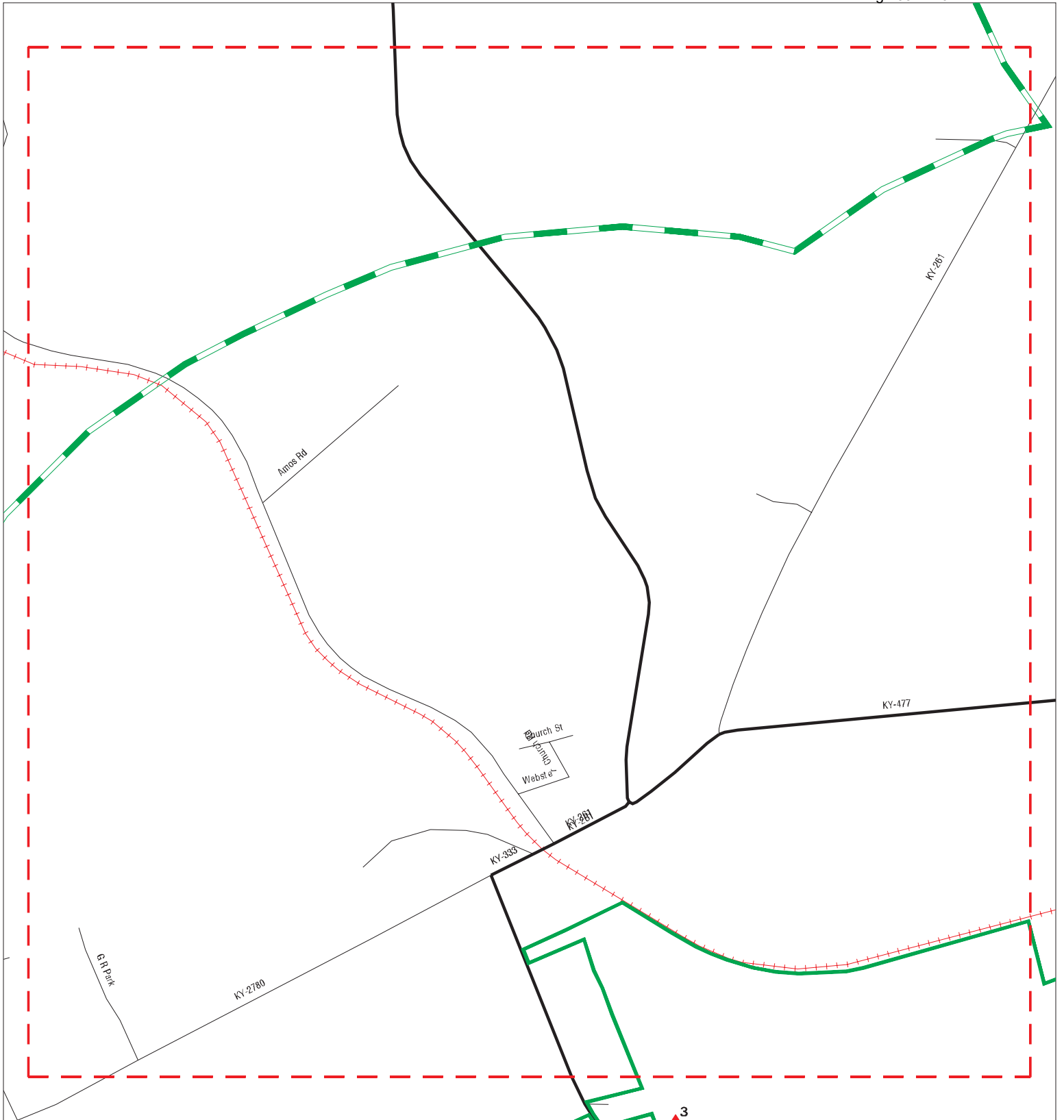
<p>SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146</p>	<p>CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20</p>
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MAPPED SITES SUMMARY - FOCUS MAP 16

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬▬▬ Target Property
- - - - Search Buffer
- ▬▬▬ Focus Map - Sites
- ▨▨▨ National Priority List Sites
- ▧▧▧ Dept. Defense Sites
- - - - Focus Map - No Sites
- ▨▨▨ Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

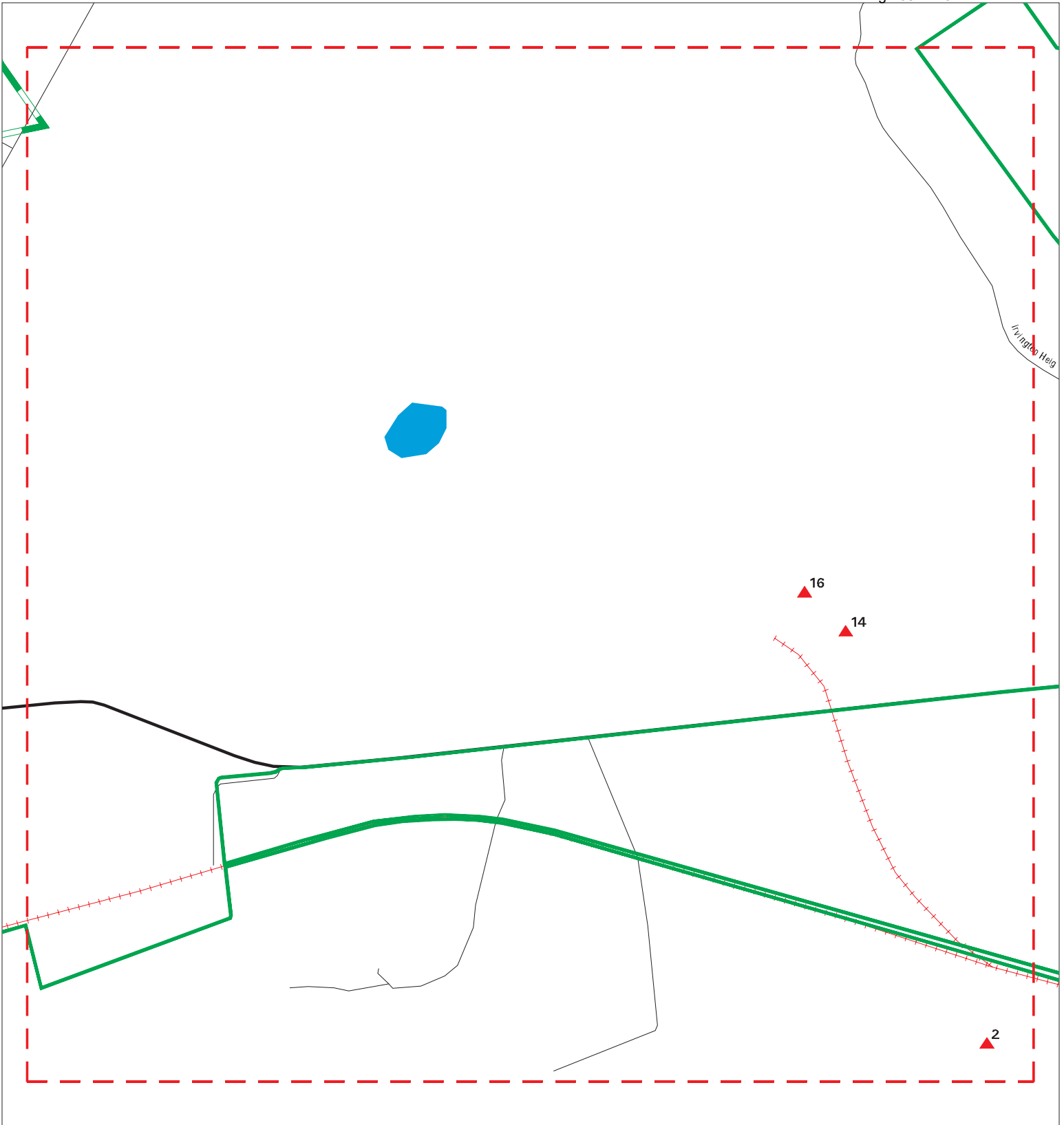
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 17

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▲ Focus Map - Sites
- ▬ Target Property
- ▬ National Priority List Sites
- ▬ Search Buffer
- ▬ Dept. Defense Sites
- ▬ Focus Map - No Sites
- ▬ Indian Reservations BIA



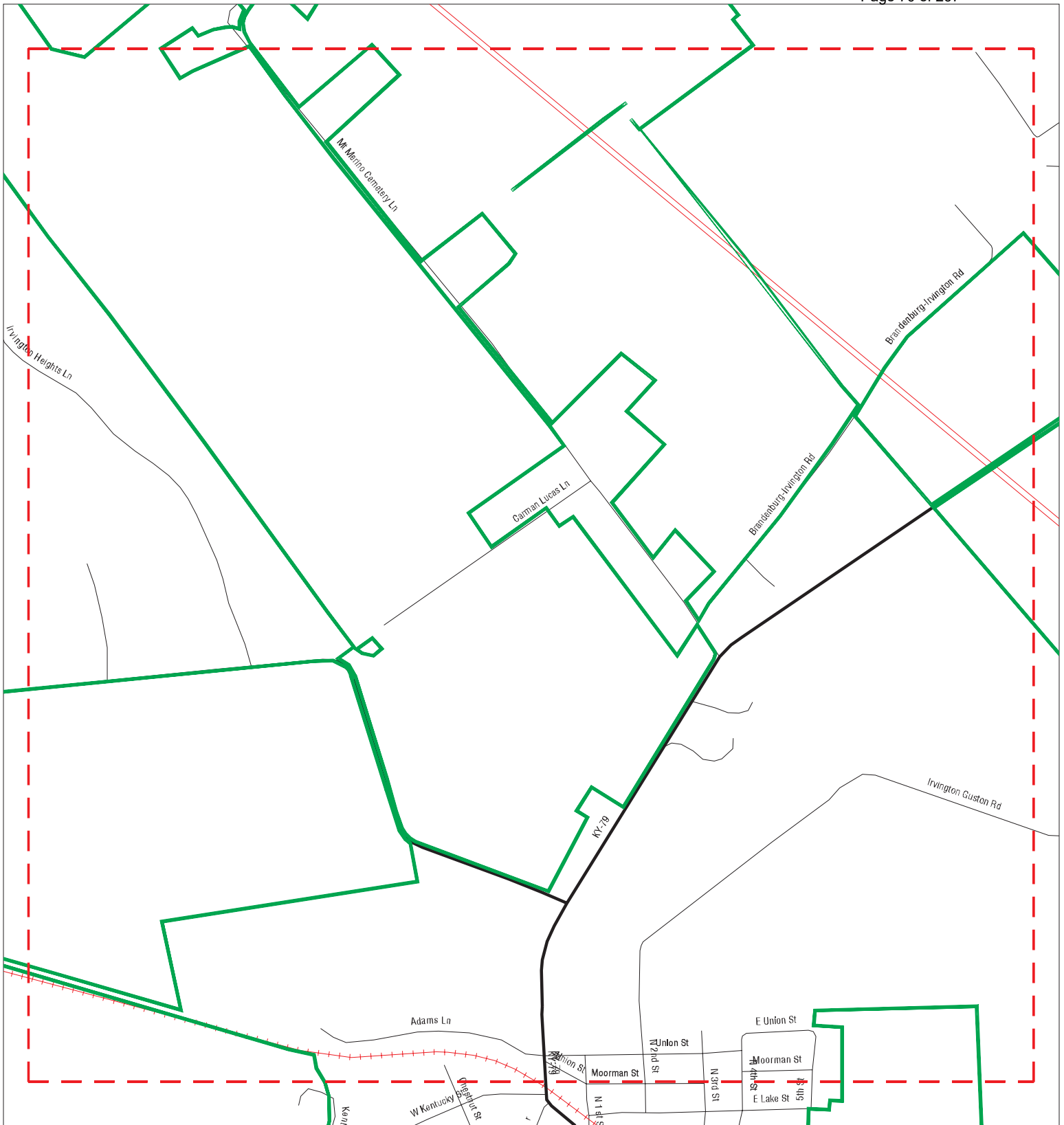
SITE NAME: Merino Solar
ADDRESS: Merino Solar
CITY/STATE: Irvington KY
ZIP: 40146

CLIENT: Shoener Environmental Inc.
CONTACT: Ryan Pohle
INQUIRY #: 6116426.5s
DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 18

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
2 / 18	MAGO CONSTRUCTION CO	HIGHWAY 477	FINDS, ECHO	TP
14 / 18	KENTUCKY STONE	KY 477	UST	609 0.115 North
16 / 18	LITERS INC	1382 KY 477	SWF/LF, AIRS	944 0.179 North



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

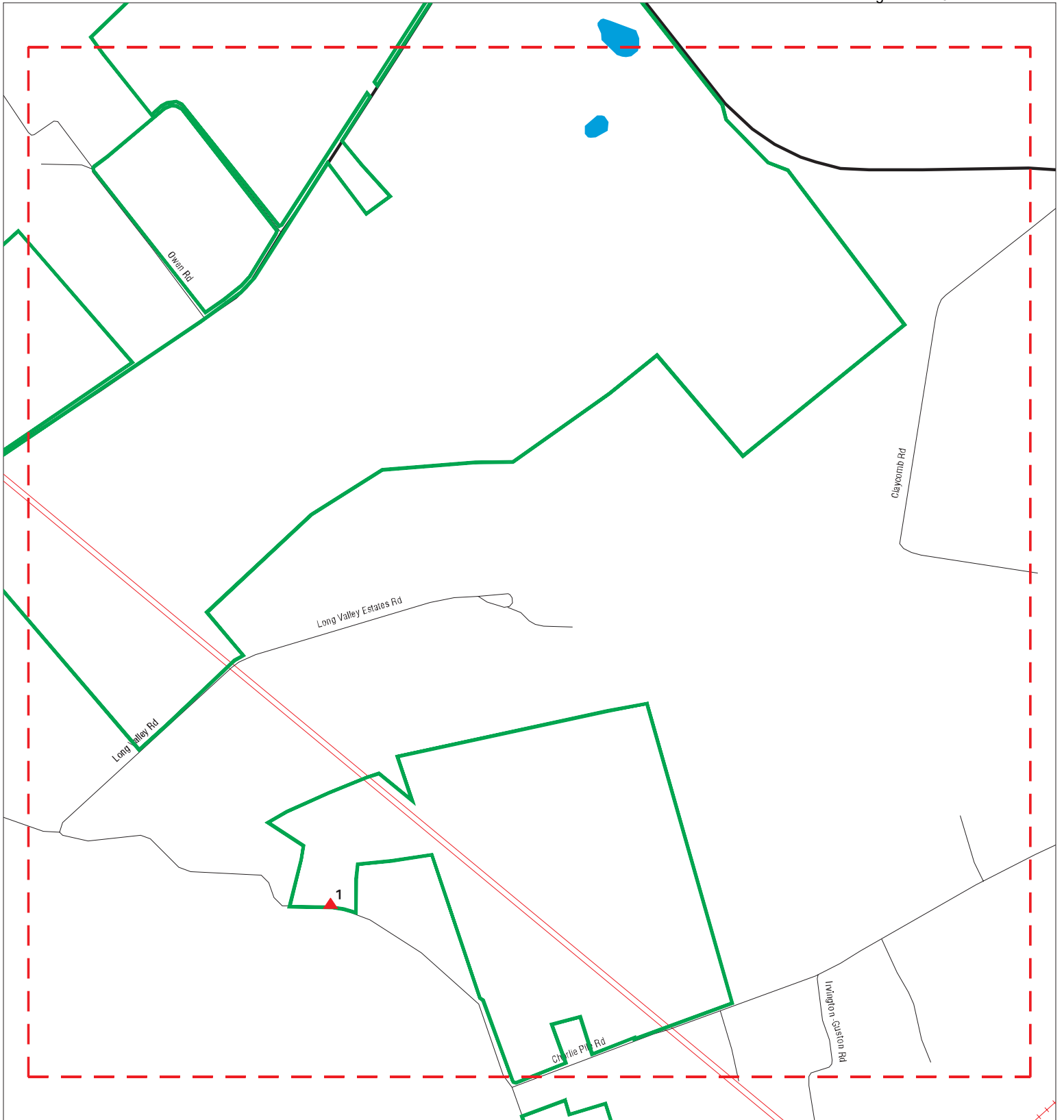
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 19

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



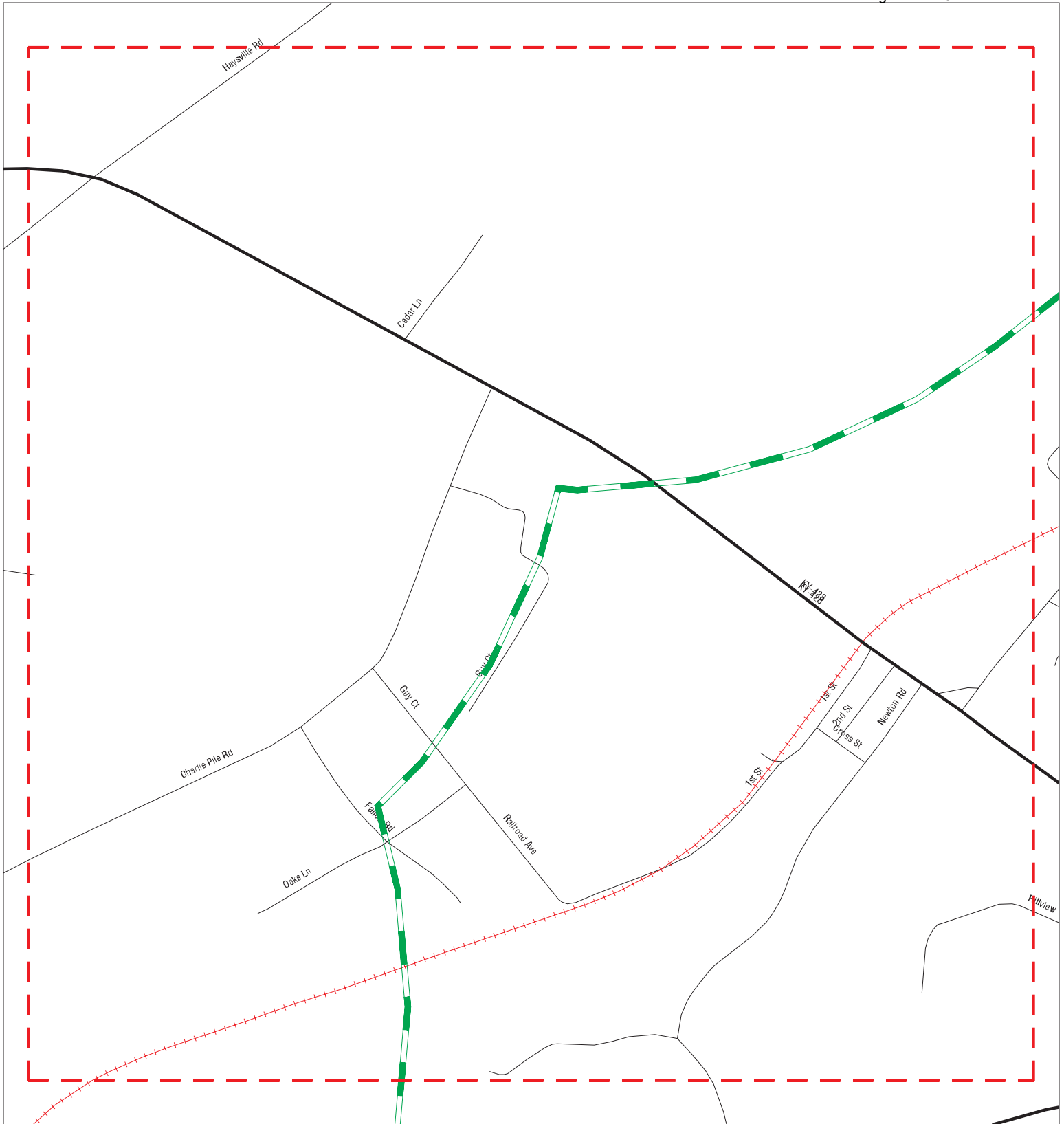
SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 20

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 20	JAMIE HARDESTY RESID	1745 IRVINGTON-GUSTO	FINDS	TP



- ▲ Sites
- - - Target Property
- - - Search Buffer
- - - Focus Map - No Sites
- - - Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 21

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Focus Map - No Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

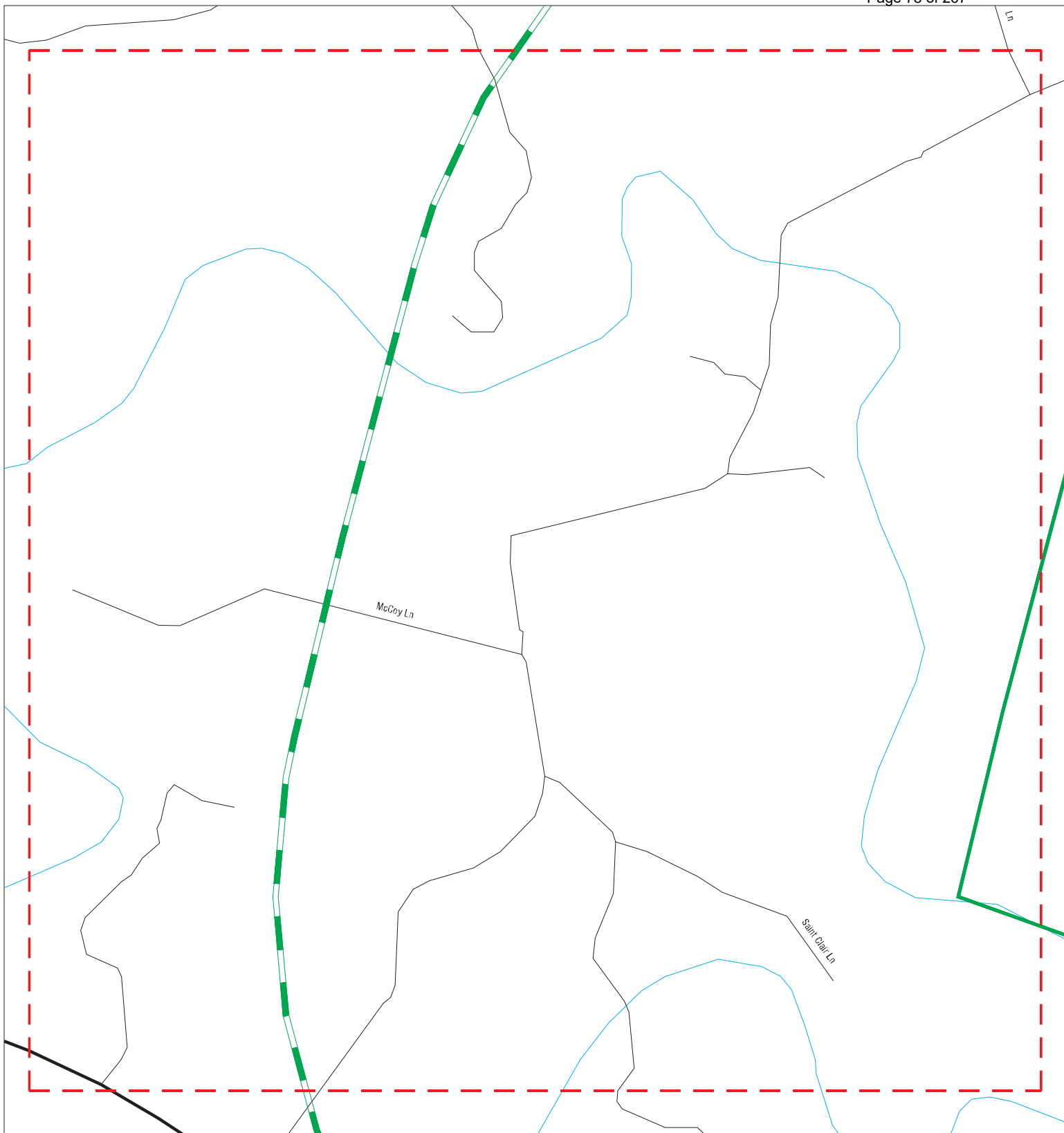
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 22

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

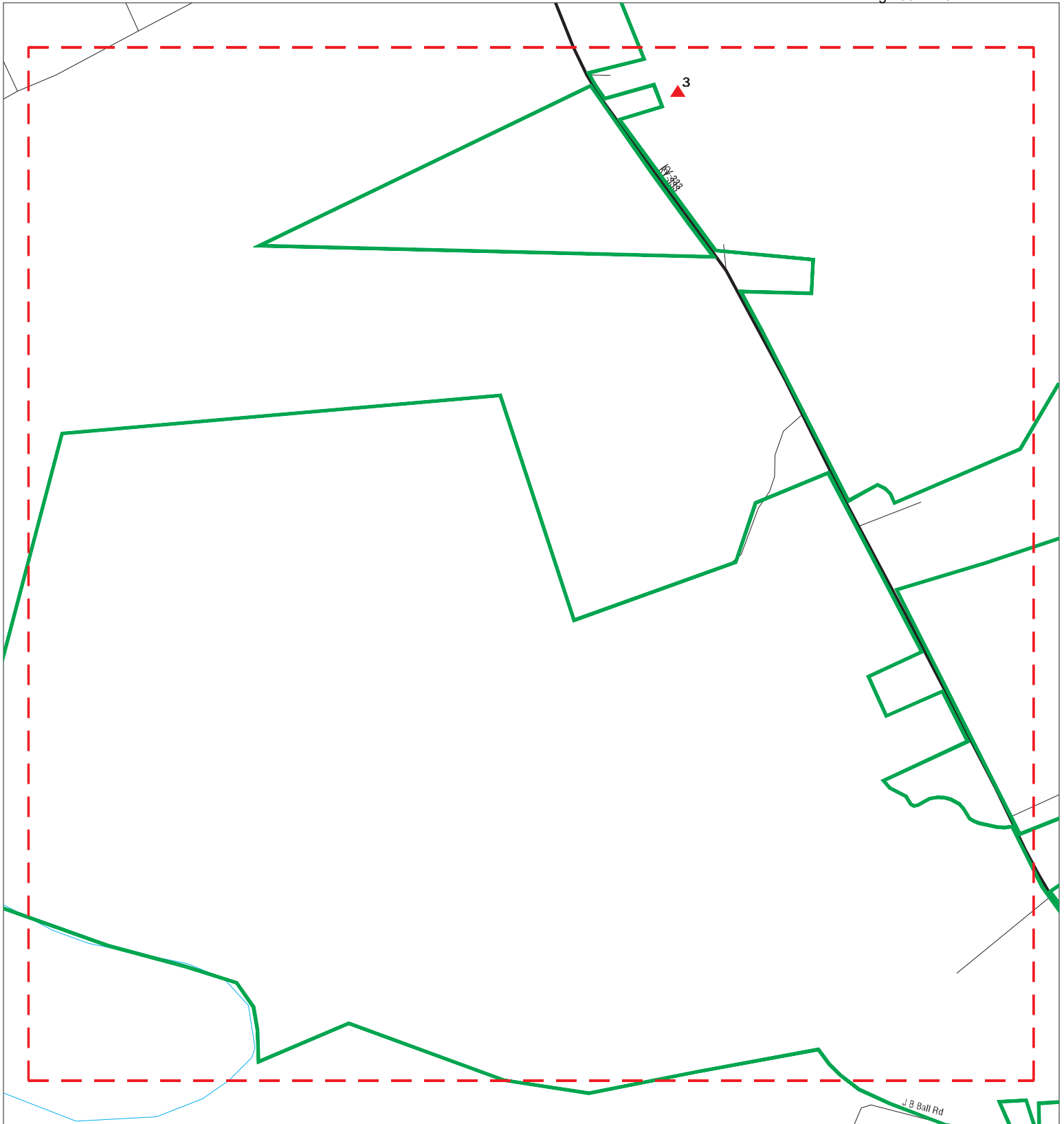
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 23

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- ▬▬ Focus Map - No Sites
- Indian Reservations BIA



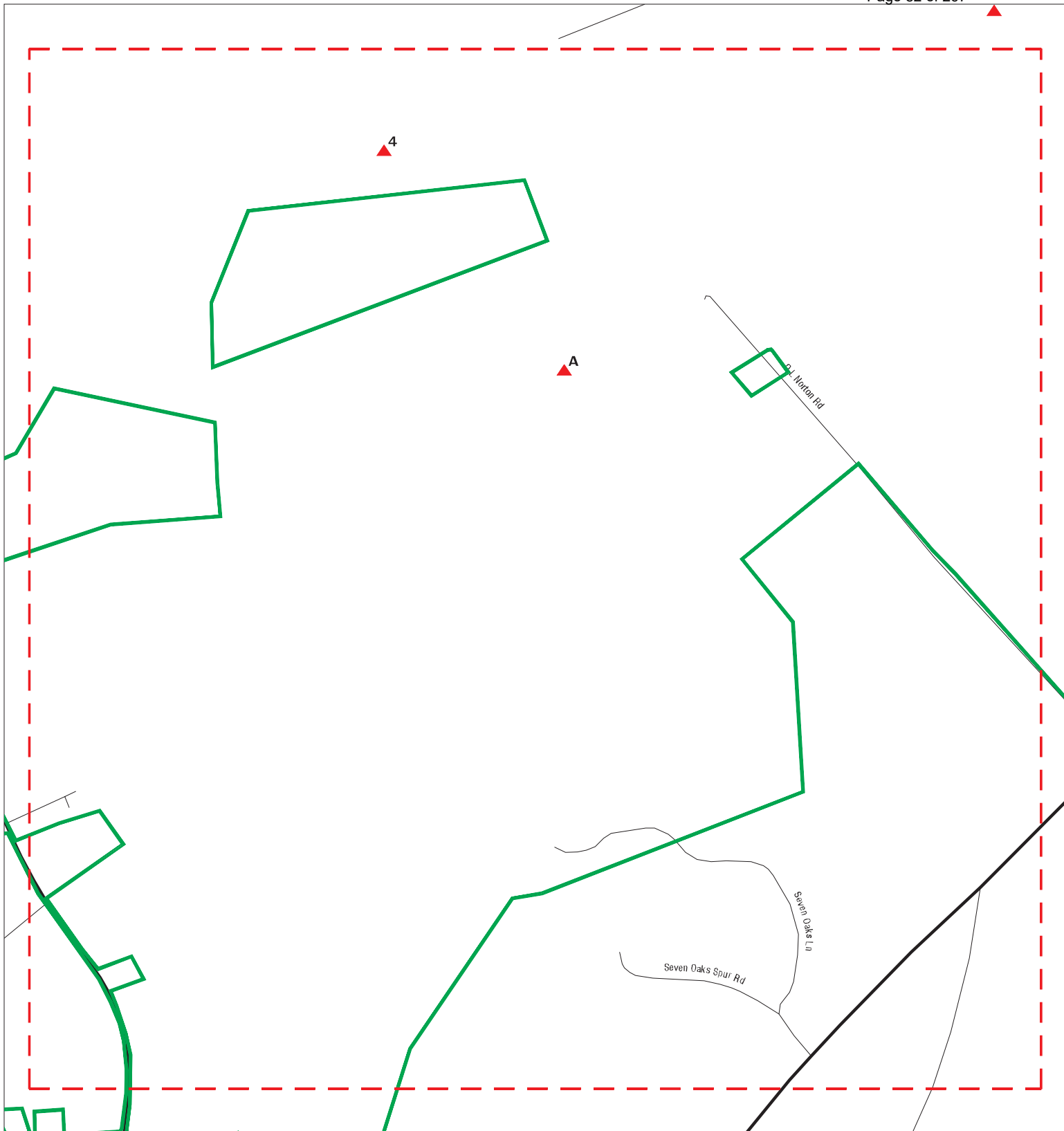
SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 24

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS SPILLS	DIST (ft. & mi.) DIRECTION TP
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- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Focus Map - No Sites
- Indian Reservations BIA



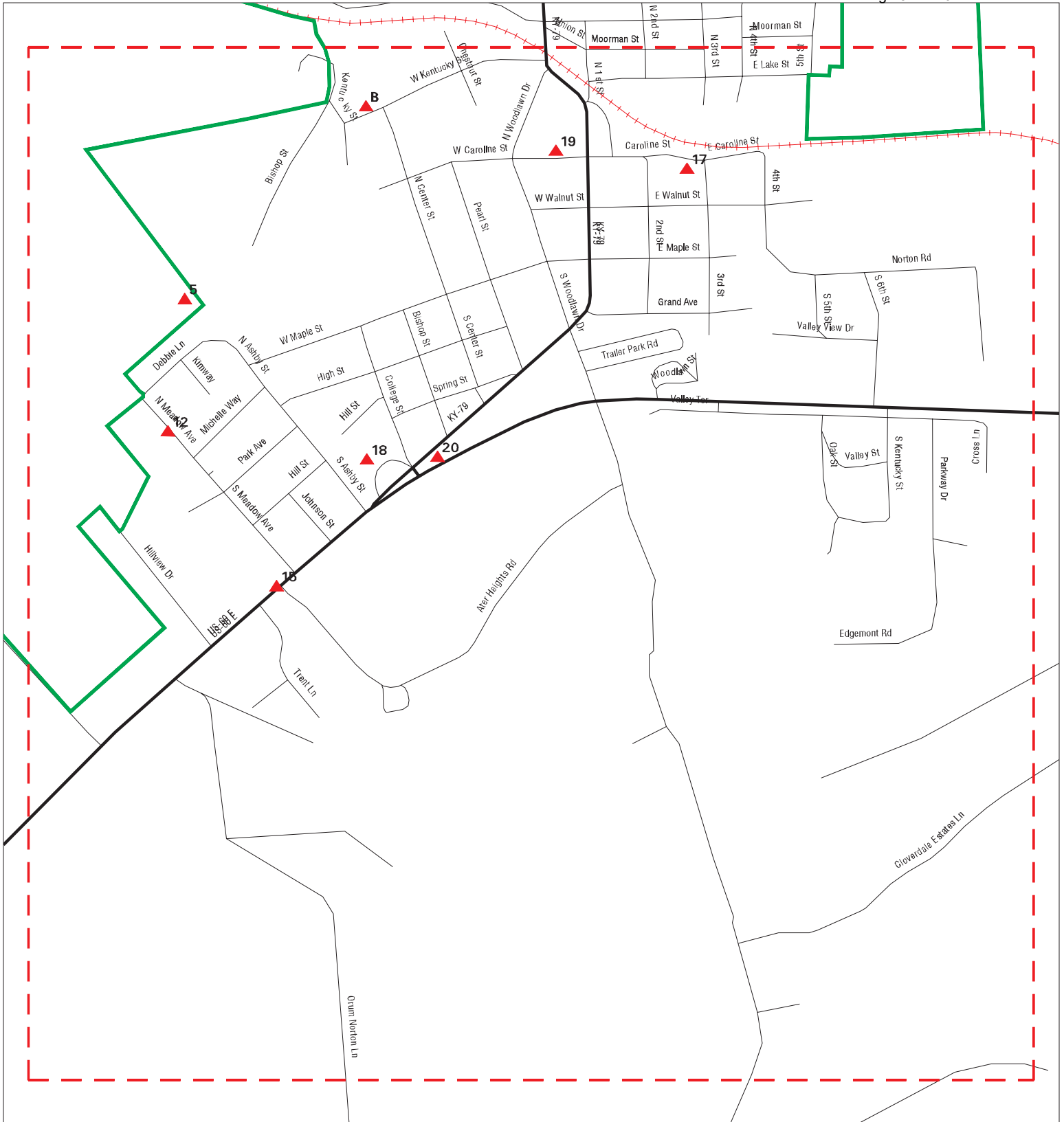
SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 25

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
4 / 25	DREW WILLOUGHBY RESI	1797 KY 477	FINDS	TP
A6 / 25			SPILLS	TP
A7 / 25			SPILLS	TP



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA

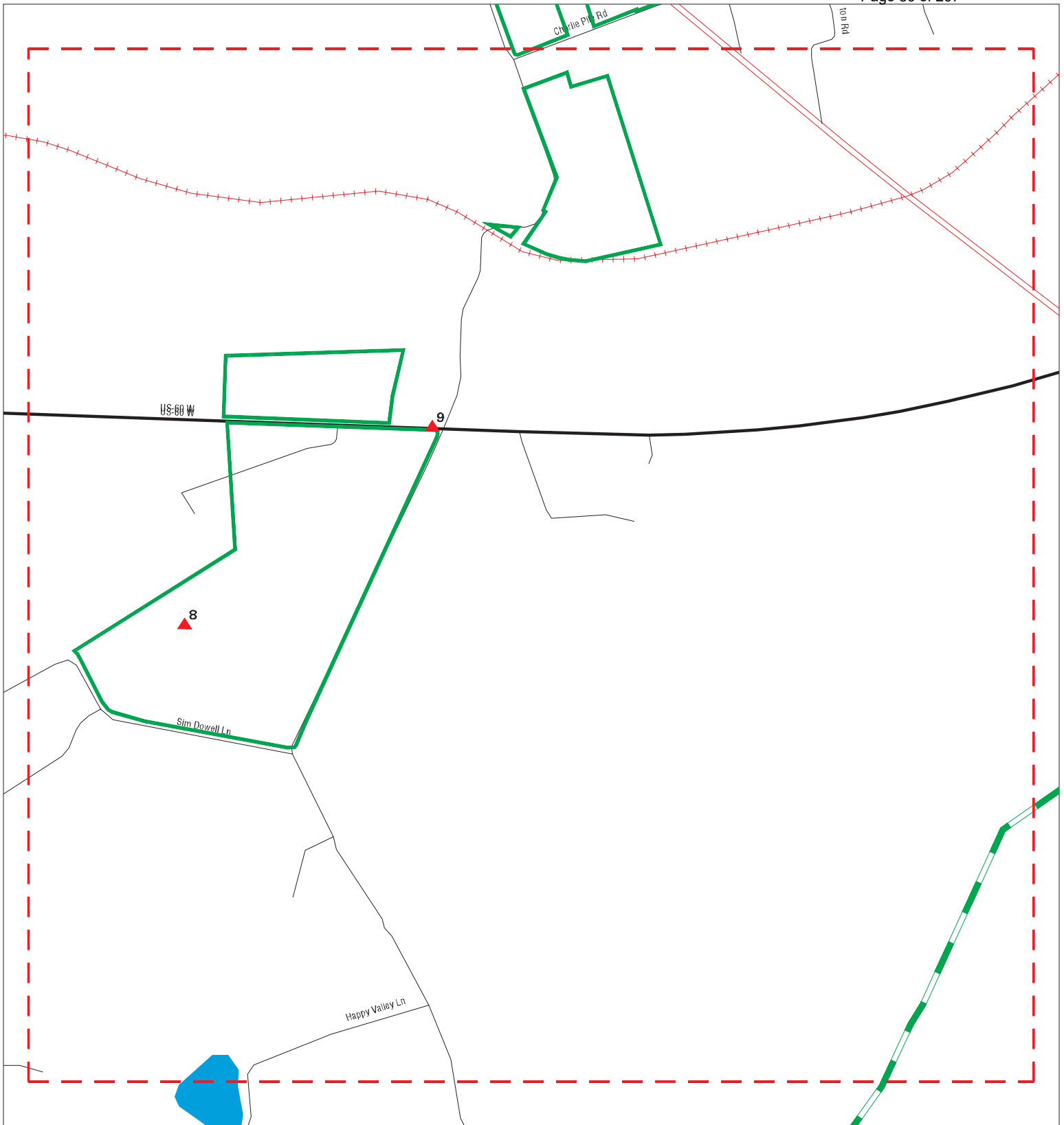


SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 26

Target Property:
 MERINO SOLAR
 IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
5 / 26			SPILLS	TP
B11 / 26	IRVINGTON MARATHON	403 N KY 79	UST	309 0.059 ESE
12 / 26	IRVINGTON WWTP	108 N MEADOW DR	SWF/LF	326 0.062 SE
B13 / 26	CPS FARM CENTER - IR	300 N CTR. STREET	RCRA NonGen / NLR, FINDS, ECHO	451 0.085 ESE
15 / 26	DOLLAR GENERAL STORE	1020 WEST US HIGHWAY	RCRA NonGen / NLR	934 0.177 ENE
17 / 26	FORMER SOUTHERN STAT	212 E CAROLINE ST	UST	958 0.181 WSW
18 / 26	IRVINGTON ELEMENTARY	611 SOUTH 1ST ST	SHWS	1705 0.323 East
19 / 26	CITY OF IRVINGTON	109 W. CAROLINE STRE	SWRCY	1826 0.346 ESE
20 / 26	CIRCLE K #3326	503 W US 60	PSTEAF, UST	2171 0.411 ESE



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 27

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
8 / 27	AT&T MOBILITY - IRVI	SAM DOWELL RD	AIRS	TP
9 / 27	KEY OIL CO LLC (DUPL	10443 E HIGHWAY 60	AST	33 0.006 North



- ▲ Sites
- - - Target Property
- Search Buffer
- - - Focus Map - No Sites
- / - Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

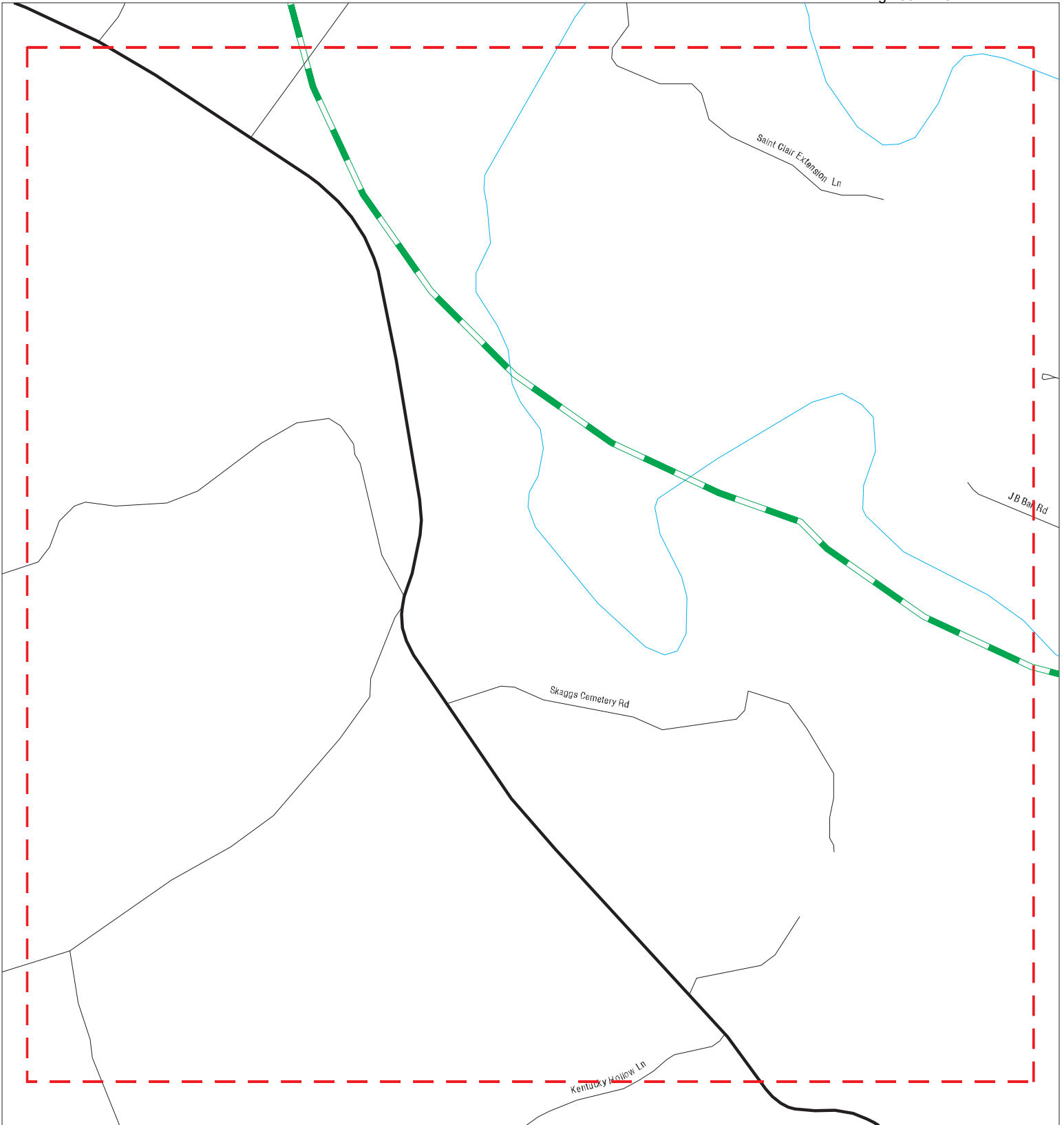
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 28

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND



- ▲ Sites
- - - Target Property
- Search Buffer
- - - Focus Map - No Sites
- / - Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar ADDRESS: Merino Solar CITY/STATE: Irvington KY ZIP: 40146	CLIENT: Shoener Environmental Inc. CONTACT: Ryan Pohle INQUIRY #: 6116426.5s DATE: 07/10/20
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MAPPED SITES SUMMARY - FOCUS MAP 29

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 30

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- - - Target Property
- - - Search Buffer
- - - Focus Map - No Sites
- - - Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

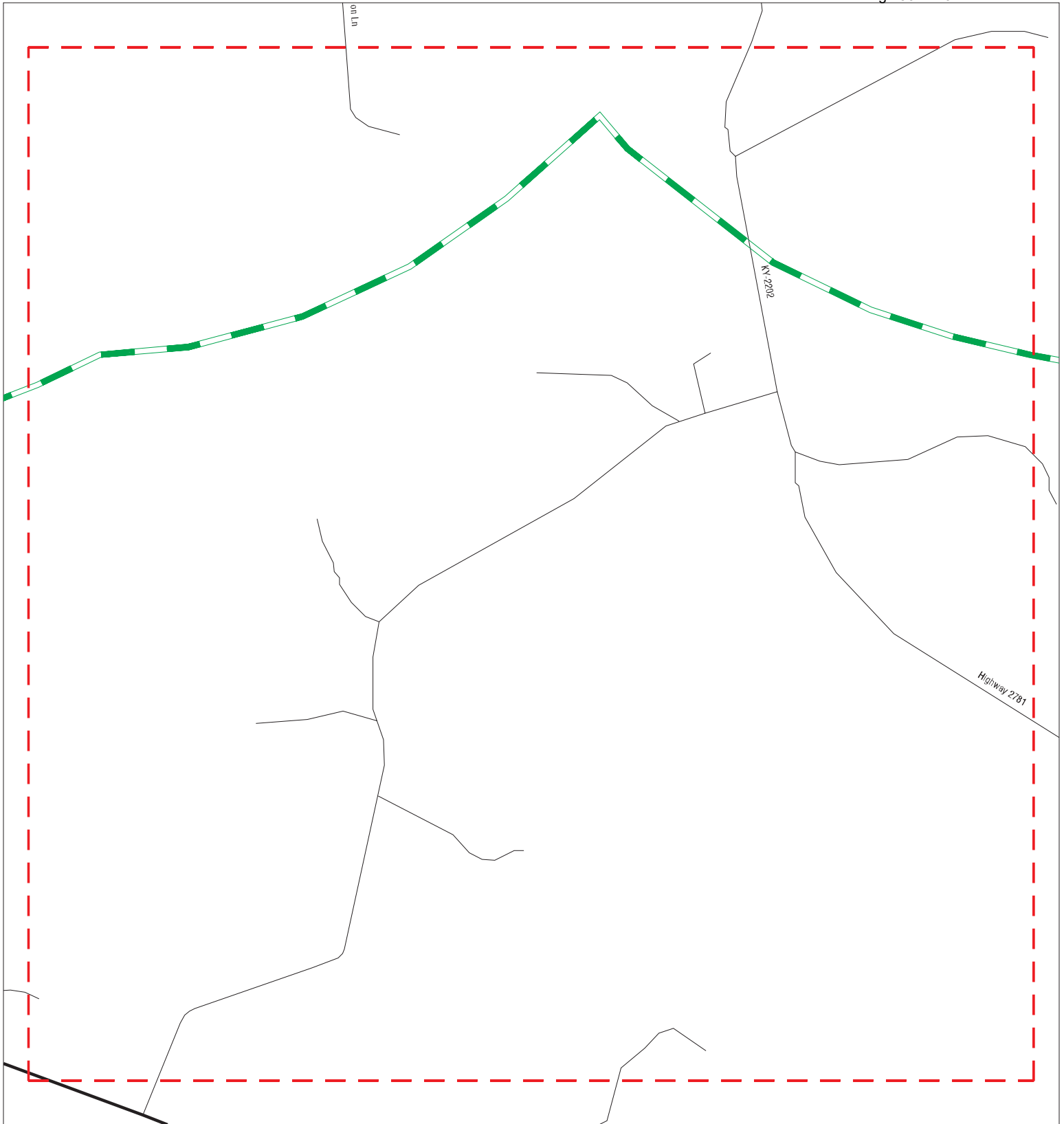
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 31

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

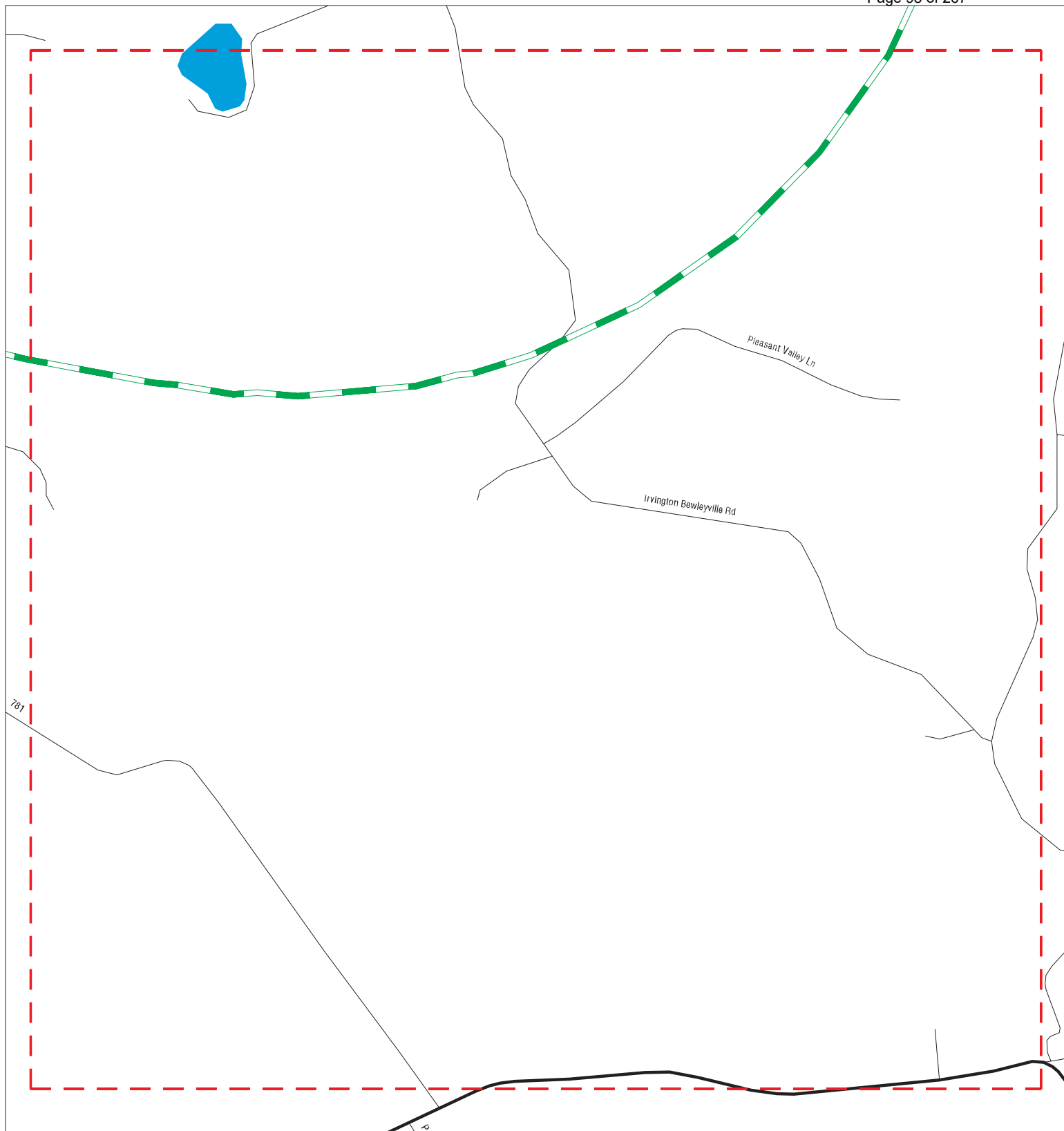
CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 32

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▨ Focus Map - Sites
- ▨ National Priority List Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations BIA



SITE NAME: Merino Solar
 ADDRESS: Merino Solar
 CITY/STATE: Irvington KY
 ZIP: 40146

CLIENT: Shoener Environmental Inc.
 CONTACT: Ryan Pohle
 INQUIRY #: 6116426.5s
 DATE: 07/10/20

MAPPED SITES SUMMARY - FOCUS MAP 33

Target Property:
MERINO SOLAR
IRVINGTON, KY 40146

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

MAP FINDINGS

Map ID Direction Distance Elevation			EDR ID Number EPA ID Number
	Site	Database(s)	

1	JAMIE HARDESTY RESIDENCE	FINDS	1015921636
Target Property	1745 IRVINGTON-GUSTON RD / CHARLIE PILE RD GUSTON, KY 40142		N/A

Actual: 614 ft.

Focus Map: 20

Environmental Interest/Information System:
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

2	MAGO CONSTRUCTION CO LLC - IRVINGTON HMA	FINDS	1016269379
Target Property	HIGHWAY 477 IRVINGTON, KY 40146	ECHO	N/A

Actual: 569 ft.

Focus Map: 18

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AIR MINOR

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016269379
 Registry ID: 110008363145
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110008363145>
 Name: MAGO CONSTRUCTION CO LLC - IRVINGTON HMA
 Address: HIGHWAY 477
 City,State,Zip: IRVINGTON, KY 40146

3	WEBSTER, KY	SPILLS	S117115465
Target Property			N/A

Actual: 570 ft.

Focus Map: 24

SPILLS:

Name: Not reported
 Address: Not reported
 City,State,Zip: WEBSTER, KY
 Facility Status: Env. Closed
 Incident Type: EROSION; STORMWATER
 Program Code: 11
 Received By Staff: Smith, Cindy
 Received Date: Not reported
 Report Date: 2007-05-08 16:20:08
 Dispatch Description:

In Webster, KY a bulldozer is cutting into the hillside without BMPs. This has caused "BAD" erosion of the hillside, and is eroding and flooding neighboring yards with water and mud. Started stopping the

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S117115465

hillside about 2 weeks ago.
 Source Name: Bobby Johnson
 Source Address: Off North Highway 333, Webster, KY near the residence of 2768
 Substances: Not reported
 Other Substances Desc: Not reported
 Media Impacted: Wastewater
 Inc ID: 2258949
 Lead Invest Person ID: 6171
 Compliance: Yes
 Notification: No
 Priority: Routine
 Incident End Date: Not reported
 Follow Up Priority Desc: Not reported
 Most Recent Comp Eval Activity: Not reported
 Most Recent ENF Activity: Not reported
 Begin Emergency Date: Not reported
 End Emergency Date: Not reported
 MARS Function Code: Not reported
 Locked: No
 Closure Type Desc: Not reported
 Latitude: 37.88277
 Longitude: -86.33583

4 **DREW WILLOUGHBY RESIDENCE**
Target **1797 KY 477**
Property **IRVINGTON, KY 40146**

FINDS **1015921634**
N/A

FINDS:
 Registry ID: 110045078679

Actual:
752 ft.

Click Here:

Focus Map: Environmental Interest/Information System:
25 STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

5
Target
Property **IRVINGTON, KY**

SPILLS **S117210991**
N/A

SPILLS:
 Name: Not reported
 Address: Not reported
 City,State,Zip: IRVINGTON, KY
 Facility Status: Dispatched Regional Office
 Incident Type: OPEN BURNING
 Program Code: 01
 Received By Staff: Stratton, Paul
 Received Date: 09/15/2013
 Report Date: 2013-09-16 14:27:51
 Dispatch Description:

Actual:
601 ft.

Focus Map:
26

Caller reports the City of Irvington has a burn site area located on the Irvington WWTP property for the local people to dispose their brush for burning. Caller reports people are dumping old dressers, bags, wood items, and other debris. Caller said the city burned last night around 5-6 PM and the smoke and odors were causing her breathing difficulties and eyes to burn. The odor is still lingering today.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site Database(s) EDR ID Number
 EPA ID Number

(Continued)

S117210991

Source Name: City of Irvington
 Source Address: End of Meadow Drive at the curve of Debbie Lane
 Substances: PM2.5 (Particulate Matter - 2.5 Microns Or Less):
 Other Substances Desc: Not reported
 Media Impacted: Air
 Inc ID: 2367421
 Lead Invest Person ID: 45765
 Compliance: Yes
 Notification: No
 Priority: Routine
 Incident End Date: 2013-09-15 00:00:00
 Follow Up Priority Desc: Routine
 Most Recent Comp Eval Activity: Not reported
 Most Recent ENF Activity: Not reported
 Begin Emergency Date: Not reported
 End Emergency Date: Not reported
 MARS Function Code: Not reported
 Locked: Yes
 Closure Type Desc: Env. Closed-No Action Necessary
 Latitude: 37.87833
 Longitude: -86.29489

A6
 Target
 Property

IRVINGTON, KY

SPILLS S117199648
 N/A

Site 1 of 2 in cluster A

Actual:
 660 ft.
 Focus Map:
 25

SPILLS:
 Name: Not reported
 Address: Not reported
 City,State,Zip: IRVINGTON, KY
 Facility Status: Emergency
 Incident Type: Suspected Release-UST
 Program Code: 10
 Received By Staff: Maleki, Ebrahim
 Received Date: 11/26/2012
 Report Date: 2012-11-26 12:35:21
 Dispatch Description: Circle K Fuel Centers called to report a possible line leak on an underground storage tank (UST) @ 503 W US 60 in Irvington, KY. It is on the premium grade fuel and they have shut down all tanks and have technicians on scene. They have also contacted American Environmental for clean up as needed. ERT dispatched Kevin Strohmeier to investigate.
 Source Name: Circle K 3326 (AI ID: 56707);
 Source Address: 503 W US 60
 Substances: Gasoline:
 Other Substances Desc: Not reported
 Media Impacted: UST
 Inc ID: 2354226
 Lead Invest Person ID: 9872
 Compliance: No
 Notification: Yes
 Priority: Emergency, Immed. Resp.
 Incident End Date: Not reported
 Follow Up Priority Desc: Routine
 Most Recent Comp Eval Activity: AI: 56707 CIV20120001
 Most Recent ENF Activity: AI: 56707 ENV20120002

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S117199648

Begin Emergency Date: 11/26/2012
 End Emergency Date: 11/26/2012
 MARS Function Code: N254
 Locked: No
 Closure Type Desc: Not reported
 Latitude: 37.87689
 Longitude: -86.31189

**A7
 Target
 Property**

IRVINGTON, KY

**SPILLS S117327616
 N/A**

Site 2 of 2 in cluster A

**Actual:
 660 ft.**

**Focus Map:
 25**

SPILLS:
 Name: Not reported
 Address: Not reported
 City,State,Zip: IRVINGTON, KY
 Facility Status: Env. Closed
 Incident Type: Suspected Release-UST
 Program Code: 10
 Received By Staff: Strohmeier, Kevin
 Received Date: 09/02/2014
 Report Date: 2014-09-02 18:32:00
 Dispatch Description: Matt Jordan, Circle K, called to report an Underground Storage Tank(UST) Involving a tank test failure due to water found in unleaded tanks 1 & 7 and they think it could be caused by a manifold leak between the 2 tanks. Petro Towery is on scene. Update from Kevin Strohmeier: FYI. I spoke with the owner and at this point there is less than an inch of water and the tanks take on water only under vacuum; the contractor will be on scene tomorrow to evaluate.

Source Name: Circle K 3326 (AI ID: 56707)
 Source Address: 503 W. US 60 - Circle K # 3326
 Substances: Gasoline:
 Other Substances Desc: Not reported
 Media Impacted: UST
 Inc ID: 2383747
 Lead Invest Person ID: 22332
 Compliance: Yes
 Notification: Yes
 Priority: Emergency, Immed. Resp.
 Incident End Date: Not reported
 Follow Up Priority Desc: Not reported
 Most Recent Comp Eval Activity: AI: 56707 CIV20140002
 Most Recent ENF Activity: Not reported
 Begin Emergency Date: 09/04/2014
 End Emergency Date: 12/10/2014
 MARS Function Code: O685
 Locked: Yes
 Closure Type Desc: Env. Closed-Restored
 Latitude: 37.87689
 Longitude: -86.31189

MAP FINDINGS

Map ID			
Direction			
Distance			EDR ID Number
Elevation	Site	Database(s)	EPA ID Number

8	AT&T MOBILITY - IRVINGTON CELL TOWER ENGINE	AIRS	S122501276
Target	SAM DOWELL RD		N/A
Property	IRVINGTON, KY 40146		
	AIRS:		
Actual:	Name:	AT&T MOBILITY - IRVINGTON CELL TOWER ENGINE	
733 ft.	Address:	SAM DOWELL RD	
	City,State,Zip:	IRVINGTON, KY 40146	
Focus Map:	Facility:	2102700042	
27	Mailing Address 3:	Not reported	
	Emps:	1	
	Plant Class Description:	R; Registered Source	
	Acreage:	1.00	
	Alternate Facility Name:	New Cingular Wireless PCS LLC dba AT&T Mobility - FA10019835 EV3331 Irvington Cell Tower	
	Alternate Facility End Date:	Not reported	
	Principal Product:	Cell Tower	
	State Plant Class Code:	R000	
	DAQ AI Type:	INFO-Telecommunications (517)	
	DAQ Reg Comment:	Not reported	
	Mailing Address Line 2:	Not reported	
	Inspector Assigned AI:	Amanda Aldridge	
	Last Inspection Lead:	Not reported	
	Last Inspection Date:	Not reported	
	Air Programs:	0-SIP Source; 9-NSPS; G-Area Source MACT	
	Air Subparts:	Not Applicable; 9-IIII-Compression Ignition Int. Comb Eng; G-ZZZZ-Recipro. Int. Comb Engine (RICE)	

9	KEY OIL CO LLC (DUPLICATE CONTACT)	AST	A100449739
North	10443 E HIGHWAY 60		N/A
< 1/8	IRVINGTON, KY 40146		
0.006 mi.			
33 ft.			
Actual:	AST:		
697 ft.	Permit Number:	PAG0003012	
	Name:	KEY OIL CO LLC (DUPLICATE CONTACT)	
Focus Map:	Address:	10443 E HIGHWAY 60	
27	City,State,Zip:	IRVINGTON, KY 40146-5541	
	Permit Type:	Private Use	
	Category:	Other	
	Permit Status:	Completed	
	Issue Date:	02/14/2008	
	Subdivision:	Not reported	
	Last Inspection:	Not reported	
	Installer:	Southern KY Maintenance - Charles Young	

10	MIDWAY PETROLEUM INC	UST	U001442881
East	5140 HWY 79		N/A
< 1/8	MIDWAY (MEADE), KY 40142		
0.006 mi.			
33 ft.			
Actual:	UST:		
648 ft.	Name:	MIDWAY PETROLEUM INC	
	Address:	5140 HWY 79	
Focus Map:	City,State,Zip:	MIDWAY (MEADE), KY 40142	
3	Sequence Id:	5140082	
	Facility ID:	59135	

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

EDR ID Number
 EPA ID Number

MIDWAY PETROLEUM INC (Continued)

U001442881

Owner Name:	Midway Petroleum Inc
Owner Address:	PO Box 8
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Irvington, KY 40146
Internal Document ID:	0
Latitude:	37.950833
Longitude:	-86.238611
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	FLR
Last Tank Test Date:	03/30/2007
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LDX
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	01/14/2020
Last CP Test Date:	01/14/2020
Added To Flex Date:	04/09/2009
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrpcd:	Coating & Cathodic Protection
Decode For Treltdetcd:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltdetcd:	Exempt From Leak Detection
Decode For Preltdetsuc:	None
Decode For Plekdetcd:	Not Applicable
Decode For Tsubcd:	GAS-UNL-Reg Unl Gas
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Fiberglass Manufacturer Unknown
Subject Item ID:	2
Tank Status:	TAC
Installation Date:	02/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MIDWAY PETROLEUM INC (Continued)

U001442881

Tank Mfg Code:	STI
Tank Overfill Protection:	FLR
Last Tank Test Date:	03/30/2007
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LDX
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	01/14/2020
Last CP Test Date:	01/14/2020
Added To Flex Date:	04/09/2009
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treltcd:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltcd:	Exempt From Leak Detection
Decode For Preltcsuc:	None
Decode For Plekdetcd:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Fiberglass Manufacturer Unknown
Subject Item ID:	1
Tank Status:	TAC
Installation Date:	02/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	FLR
Last Tank Test Date:	03/30/2007
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LDX
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	01/14/2020
Last CP Test Date:	01/14/2020
Added To Flex Date:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MIDWAY PETROLEUM INC (Continued)

U001442881

Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrpcd:	Coating & Cathodic Protection
Decode For Treltcd:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltcd:	Exempt From Leak Detection
Decode For Preltcdsuc:	None
Decode For Plekdetcd:	Not Applicable
Decode For Tsubcd:	GAS-PLS-Plus Unl Gas
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Fiberglass Manufacturer Unknown
Subject Item ID:	4
Tank Status:	TAC
Installation Date:	02/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	FLR
Last Tank Test Date:	03/30/2007
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LDX
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	09/13/2018
Last CP Test Date:	01/14/2020
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrpcd:	Coating & Cathodic Protection
Decode For Treltcd:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltcd:	Exempt From Leak Detection

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MIDWAY PETROLEUM INC (Continued)

U001442881

Decode For Preadetsuc: None
 Decode For Plekdetcod: Not Applicable
 Decode For Tsubcd: GAS-UNL-Reg Unl Gas
 Decode For Tmancd: STI-P3
 Decode For Pmancd: Fiberglass Manufacturer Unknown
 Subject Item ID: 3
 Tank Status: TAC
 Installation Date: 02/01/1990
 Closed In Place Date: Not reported
 Capacity in Gallons: 10000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

Inert Material Code: Not reported
 Removed Date: Not reported
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: STI
 Tank Overfill Protection: FLR
 Last Tank Test Date: 03/30/2007
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: LDX
 Pipe Rel Detect Suc Code: NON
 Pipe Leak Detect Code: NA
 Last Contained Date: Not reported
 Pipe Mfg Code: Not reported
 Last Pipe Test Date: 09/13/2018
 Last CP Test Date: 01/14/2020
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Active
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprd: Coating & Cathodic Protection
 Decode For Treldecod: Automatic Tank Gauging
 Decode For Tintprotcd: Not Applicable
 Decode For Tsplprevcd: Single Wall Spill Bucket
 Decode For Tovflprvcd: Flow Restrictor
 Decode For Pmatcode: Fiberglass Reinforced Plastic
 Decode For Pextcoprcd: Not Applicable
 Decode For Ptypecode: Pressurized
 Decode For Preadetcod: Exempt From Leak Detection
 Decode For Preadetsuc: None
 Decode For Plekdetcod: Not Applicable
 Decode For Tsubcd: Diesel
 Decode For Tmancd: STI-P3
 Decode For Pmancd: Not reported
 Subject Item ID: 6
 Tank Status: TAC
 Installation Date: 02/01/1990
 Closed In Place Date: Not reported
 Capacity in Gallons: 10000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

MIDWAY PETROLEUM INC (Continued)

U001442881

Inert Material Code: Not reported
 Removed Date: Not reported
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: STI
 Tank Overfill Protection: FLR
 Last Tank Test Date: 03/30/2007
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: LDX
 Pipe Rel Detect Suc Code: NON
 Pipe Leak Detect Code: NA
 Last Contained Date: Not reported
 Pipe Mfg Code: Not reported
 Last Pipe Test Date: 09/13/2018
 Last CP Test Date: 01/14/2020
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Active
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprd: Coating & Cathodic Protection
 Decode For Treltdetcd: Automatic Tank Gauging
 Decode For Tintprotcd: Not Applicable
 Decode For Tsplprvcd: Single Wall Spill Bucket
 Decode For Tovflprvcd: Flow Restrictor
 Decode For Pmatcode: Fiberglass Reinforced Plastic
 Decode For Pextcoprcd: Not Applicable
 Decode For Ptypecode: Pressurized
 Decode For Preltdetcd: Exempt From Leak Detection
 Decode For Preltdetsuc: None
 Decode For Plektdetcd: Not Applicable
 Decode For Tsubcd: Kerosene
 Decode For Tmancd: STI-P3
 Decode For Pmancd: Not reported
 Subject Item ID: 5
 Tank Status: TAC
 Installation Date: 02/01/1990
 Closed In Place Date: Not reported
 Capacity in Gallons: 10000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

Inert Material Code: Not reported
 Removed Date: Not reported
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: STI
 Tank Overfill Protection: FLR
 Last Tank Test Date: 03/30/2007
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: LDX
 Pipe Rel Detect Suc Code: NON
 Pipe Leak Detect Code: NA
 Last Contained Date: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

MIDWAY PETROLEUM INC (Continued)

U001442881

Pipe Mfg Code: Not reported
 Last Pipe Test Date: 09/13/2018
 Last CP Test Date: 01/14/2020
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Active
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprcd: Coating & Cathodic Protection
 Decode For Treltcd: Automatic Tank Gauging
 Decode For Tintprotcd: Not Applicable
 Decode For Tsplprevcd: Single Wall Spill Bucket
 Decode For Tovflprvcd: Flow Restrictor
 Decode For Pmatcode: Fiberglass Reinforced Plastic
 Decode For Pextcoprcd: Not Applicable
 Decode For Ptypecode: Pressurized
 Decode For Preltcd: Exempt From Leak Detection
 Decode For Preltcdsuc: None
 Decode For Plekdetcd: Not Applicable
 Decode For Tsubcd: Diesel
 Decode For Tmancd: STI-P3
 Decode For Pmancd: Not reported
 Subject Item ID: 7
 Tank Status: TAC
 Installation Date: 02/01/1990
 Closed In Place Date: Not reported
 Capacity in Gallons: 10000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

B11 IRVINGTON MARATHON
ESE 403 N KY 79
< 1/8 IRVINGTON, KY 40146
0.059 mi.
309 ft. Site 1 of 2 in cluster B

UST U001181166
N/A

Actual: UST:
609 ft.
Focus Map:
26

Name: IRVINGTON MARATHON
 Address: 403 N KY 79
 City,State,Zip: IRVINGTON, KY 40146
 Sequence Id: 2554014
 Facility ID: 56717
 Owner Name: Riya Investment Inc
 Owner Address: 403 N KY 79
 Owner Address2: Not reported
 Owner Address3: Not reported
 Owner City,St,Zip: Irvington, KY 40146
 Internal Document ID: 0
 Latitude: 37.884553
 Longitude: -86.285065

Inert Material Code: Not reported
 Removed Date: Not reported
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: STI
 Tank Overfill Protection: ASD

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

IRVINGTON MARATHON (Continued)

U001181166

Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	SIR
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	AMR
Last Pipe Test Date:	05/08/2013
Last CP Test Date:	07/18/2018
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treltdetcd:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltdetcd:	Statistical Inventory Recon
Decode For Preltdetsuc:	None
Decode For Plektdetcd:	Manual Line Leak Detection
Decode For Tsubcd:	Kerosene
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Ameron
Subject Item ID:	4
Tank Status:	TAC
Installation Date:	04/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	560
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	ASD
Last Tank Test Date:	02/20/2002
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	SIR
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	AMR
Last Pipe Test Date:	05/08/2013
Last CP Test Date:	07/18/2018
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

IRVINGTON MARATHON (Continued)

U001181166

Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treldecod:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldecod:	Statistical Inventory Recon
Decode For Preldecod:	None
Decode For Plekdecod:	Manual Line Leak Detection
Decode For Tsubcd:	Diesel
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Ameron
Subject Item ID:	3
Tank Status:	TAC
Installation Date:	04/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	FLR
Last Tank Test Date:	02/20/2002
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	SIR
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	AMR
Last Pipe Test Date:	05/08/2013
Last CP Test Date:	07/18/2018
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treldecod:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldecod:	Statistical Inventory Recon
Decode For Preldecod:	None
Decode For Plekdecod:	Manual Line Leak Detection

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

IRVINGTON MARATHON (Continued)

U001181166

Decode For Tsubcd:	GAS-PRM-Prem Unl Gas
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Ameron
Subject Item ID:	2
Tank Status:	TAC
Installation Date:	04/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	4000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	FLR
Last Tank Test Date:	02/20/2002
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	SIR
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	AMR
Last Pipe Test Date:	05/08/2013
Last CP Test Date:	07/18/2018
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Coating & Cathodic Protection
Decode For Treldecd:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprvcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcd:	Statistical Inventory Recon
Decode For Preldetsuc:	None
Decode For Plekdetcd:	Manual Line Leak Detection
Decode For Tsubcd:	GAS-UNL-Reg Unl Gas
Decode For Tmancd:	STI-P3
Decode For Pmancd:	Ameron
Subject Item ID:	1
Tank Status:	TAC
Installation Date:	04/01/1990
Closed In Place Date:	Not reported
Capacity in Gallons:	4000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

IRVINGTON MARATHON (Continued)

U001181166

Removed Date: Not reported
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: STI
 Tank Overfill Protection: FLR
 Last Tank Test Date: Not reported
 Relined Date: Not reported
 Lining Insp Date: 02/20/2002
 Pipe Release Detection: SIR
 Pipe Rel Detect Suc Code: NON
 Pipe Leak Detect Code: MLD
 Last Contained Date: Not reported
 Pipe Mfg Code: AMR
 Last Pipe Test Date: 05/08/2013
 Last CP Test Date: 07/18/2018
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Active
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprd: Coating & Cathodic Protection
 Decode For Treldecd: Statistical Inventory Recon
 Decode For Tintprotcd: Not Applicable
 Decode For Tsplprvcd: Single Wall Spill Bucket
 Decode For Tovflprvcd: Flow Restrictor
 Decode For Pmatcode: Fiberglass Reinforced Plastic
 Decode For Pextcoprcd: Not Applicable
 Decode For Ptypecode: Pressurized
 Decode For Preldecd: Statistical Inventory Recon
 Decode For Preldecsuc: None
 Decode For Plekdecd: Manual Line Leak Detection
 Decode For Tsubcd: GAS-UNL-Reg Unl Gas
 Decode For Tmancd: STI-P3
 Decode For Pmancd: Ameron
 Subject Item ID: 5
 Tank Status: TAC
 Installation Date: 04/01/1990
 Closed In Place Date: Not reported
 Capacity in Gallons: 8000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

12
 SE
 < 1/8
 0.062 mi.
 326 ft.

IRVINGTON WWTP
108 N MEADOW DR
IRVINGTON, KY 40146

SWF/LF S107602525
N/A

Actual:
599 ft.
Focus Map:
26

LF:
 Name: IRVINGTON WWTP
 Address: 108 N MEADOW DR
 City,State,Zip: IRVINGTON, KY 40146
 Facility ID: 43924
 Status: Active
 Permit Number: 01400025
 SI ID: ACTV0000000001
 SI Designation: 01400025-1

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

IRVINGTON WWTP (Continued)

S107602525

AI Name: Irvington WWTP
 Rel Entity ID: 7540
 Facility Type: Sludge Giveaway-SpW-RPBR
 Latitude: 37.87511100
 Longitude: -86.29602800
 Permittee city/state/zip: IRVINGTON, KY 40146
 Permit expired date: Not reported
 Related Entity Name: City of Irvington
 Related Entity Address1: 109 W Caroline St
 Related Entity Address2: PO Box 374
 Related Entity Municipality: Irvington
 Related Entity State: KY
 Related Entity Zip: 40146
 Related Entity Type: O
 SI Description: Sludge Giveaway-SpW-RPBR
 Date Last Site Insp.: 07/22/2014
 Last Inspector: Mr. Robert Staley

Name: IRVINGTON WWTP
 Address: 108 N MEADOW DR
 City,State,Zip: IRVINGTON, KY 40146
 Facility ID: 43924
 Status: Terminated
 Permit Number: 01400025-1
 SI ID: ACTV0000000002
 SI Designation: Terminated - 01400025-1
 AI Name: Irvington WWTP
 Rel Entity ID: 7540
 Facility Type: Sludge Giveaway-SpW-RPBR
 Latitude: 37.87511100
 Longitude: -86.29602800
 Permittee city/state/zip: IRVINGTON, KY 40146
 Permit expired date: Not reported
 Related Entity Name: City of Irvington
 Related Entity Address1: 109 W Caroline St
 Related Entity Address2: PO Box 374
 Related Entity Municipality: Irvington
 Related Entity State: KY
 Related Entity Zip: 40146
 Related Entity Type: O
 SI Description: Duplicate - SLUDGE GIVEAWAY, TYPE B-ACTIVITY APPROVED
 Date Last Site Insp.: 07/22/2014
 Last Inspector: Mr. Robert Staley

B13 CPS FARM CENTER - IRVINGTON
ESE 300 N CTR. STREET
< 1/8 IRVINGTON, KY 40146
0.085 mi.
451 ft. Site 2 of 2 in cluster B

RCRA NonGen / NLR 1000113881
FINDS KYD061559340
ECHO

Actual: RCRA NonGen / NLR:
615 ft. Date form received by agency: 1985-11-12 00:00:00.0
Focus Map: Facility name: CPS FARM CENTER - IRVINGTON
26 Facility address: 300 N CTR. STREET
 IRVINGTON, KY 40146
 EPA ID: KYD061559340
 Mailing address: P.O. BOX 65
 IRVINGTON, KY 40146

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site	Database(s)	EDR ID Number	EPA ID Number
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CPS FARM CENTER - IRVINGTON (Continued)

1000113881

Contact: J. L. DEHNER
 Contact address: P.O. BOX 65
 IRVINGTON, KY 40146
 Contact country: US
 Contact telephone: 816-332-4332
 Contact email: Not reported
 EPA Region: 04
 Classification: Non-Generator
 Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CPS FARM CENTER
 Owner/operator address: 300 NORTH CENTER STREET
 IRVINGTON, KY 40146
 Owner/operator country: Not reported
 Owner/operator telephone: 816-332-4332
 Owner/operator email: Not reported
 Owner/operator fax: Not reported
 Owner/operator extension: Not reported
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
 Mixed waste (haz. and radioactive): No
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: No
 Furnace exemption: No
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No

Hazardous Waste Summary:

. Waste code: NONE
 . Waste name: None
 Violation Status: No violations found

FINDS:

Registry ID: 110003224948

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

MAP FINDINGS

Map ID
 Direction
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Site

Database(s)

EDR ID Number
 EPA ID Number

CPS FARM CENTER - IRVINGTON (Continued)

1000113881

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000113881
 Registry ID: 110003224948
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003224948>
 Name: CPS FARM CENTER - IRVINGTON
 Address: 300 N CTR. STREET
 City,State,Zip: IRVINGTON, KY 40146

14
North
< 1/8
0.115 mi.
609 ft.

KENTUCKY STONE
KY 477
IRVINGTON, KY 40146

UST U001185451
N/A

Actual:
645 ft.
Focus Map:
18

UST:

Name: KENTUCKY STONE
 Address: KY 477
 City,State,Zip: IRVINGTON, KY 40146
 Sequence Id: 8884014
 Facility ID: 65505
 Owner Name: Emmick Oil Co
 Owner Address: PO Box 1914
 Owner Address2: Not reported
 Owner Address3: Not reported
 Owner City,St,Zip: Owensboro, KY 42302
 Internal Document ID: 0
 Latitude: 37.89333333
 Longitude: -86.30416667

Inert Material Code: Not reported
 Removed Date: 12/01/1988
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: Not reported
 Tank Overfill Protection: UNK
 Last Tank Test Date: Not reported
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: UNK
 Pipe Rel Detect Suc Code: UNK
 Pipe Leak Detect Code: NA
 Last Contained Date: Not reported
 Pipe Mfg Code: Not reported
 Last Pipe Test Date: Not reported
 Last CP Test Date: Not reported
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Removed Prior to 1988
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprd: Unknown

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KENTUCKY STONE (Continued)

U001185451

Decode For Treldecod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TR8
Installation Date:	01/01/1971
Closed In Place Date:	Not reported
Capacity in Gallons:	1000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	12/01/1988
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Prior to 1988
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldecod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported

MAP FINDINGS

Map ID
 Direction
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

KENTUCKY STONE (Continued)

U001185451

Subject Item ID: 1
 Tank Status: TR8
 Installation Date: 01/01/1971
 Closed In Place Date: Not reported
 Capacity in Gallons: 1000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

15
ENE
1/8-1/4
0.177 mi.
934 ft.

DOLLAR GENERAL STORE #7661
1020 WEST US HIGHWAY 60
IRVINGTON, KY 40146

RCRA NonGen / NLR

1016956982
KYR000062737

Actual:
600 ft.

RCRA NonGen / NLR:

Date form received by agency: 2018-10-01 00:00:00.0

Focus Map:
26

Facility name: DOLLAR GENERAL STORE #7661
 Facility address: 1020 WEST US HIGHWAY 60
 IRVINGTON, KY 40146

EPA ID: KYR000062737

Contact: Not reported

Contact address: Not reported

Contact address: Not reported

Contact country: Not reported

Contact telephone: Not reported

Contact email: Not reported

EPA Region: 04

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: DG RETAIL LLC

Owner/operator address: Not reported

Owner/operator address: Not reported

Owner/operator country: US

Owner/operator telephone: Not reported

Owner/operator email: Not reported

Owner/operator fax: Not reported

Owner/operator extension: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 2012-11-01 00:00:00.

Owner/Op end date: Not reported

Owner/operator name: DG RETAIL LLC

Owner/operator address: Not reported

Owner/operator address: Not reported

Owner/operator country: US

Owner/operator telephone: Not reported

Owner/operator email: Not reported

Owner/operator fax: Not reported

Owner/operator extension: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 2012-11-01 00:00:00.

Owner/Op end date: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site _____ Database(s) _____ EDR ID Number _____
 EPA ID Number _____

DOLLAR GENERAL STORE #7661 (Continued)

1016956982

Handler Activities Summary:

U.S. importer of hazardous waste: No
 Mixed waste (haz. and radioactive): No
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: No
 Furnace exemption: No
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No

Historical Generators:

Date form received by agency: 2014-05-07 00:00:00
 Site name: DOLLAR GENERAL STORE #7661
 Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
 . Waste name: IGNITABLE WASTE

. Waste code: D002
 . Waste name: CORROSIVE WASTE

. Waste code: D005
 . Waste name: BARIUM

. Waste code: D006
 . Waste name: CADMIUM

. Waste code: D007
 . Waste name: CHROMIUM

. Waste code: D008
 . Waste name: LEAD

. Waste code: D016
 . Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D035
 . Waste name: METHYL ETHYL KETONE

Violation Status: No violations found

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s) EDR ID Number
 EPA ID Number

16 **LITERS INC**
North **1382 KY 477**
1/8-1/4 **IRVINGTON, KY 40146**
0.179 mi.
944 ft.

SWF/LF **S108311851**
AI RS **N/A**

Actual:
688 ft.
Focus Map:
18

LF:
 Name: LITERS INC
 Address: 1382 KY 477
 City,State,Zip: IRVINGTON, KY 40146
 Facility ID: 421
 Status: Active
 Permit Number: 01400038
 SI ID: ACTV0000000002
 SI Designation: Beneficial Reuse - Special Waste
 AI Name: Liters Inc
 Rel Entity ID: 5838
 Facility Type: Beneficial Reuse-Special Waste-RPBR
 Latitude: 37.89888900
 Longitude: -86.30527800
 Permittee city/state/zip: IRVINGTON, KY 40146
 Permit expired date: 04/19/2027
 Related Entity Name: Liters Inc
 Related Entity Address1: 5918 Haunz Ln
 Related Entity Address2: Not reported
 Related Entity Municipality: Louisville
 Related Entity State: KY
 Related Entity Zip: 40241
 Related Entity Type: O
 SI Description: SWB: Beneficial Reuse - Water Treatment Residual Solids from Muldraugh Plant
 Date Last Site Insp.: Not reported
 Last Inspector: Not reported

AIRS:
 Name: LITERS INC
 Address: 1382 KY 477
 City,State,Zip: IRVINGTON, KY 40146
 Facility: 2102700007
 Mailing Address 3: Not reported
 Emps: 10
 Plant Class Description: X; Minor/All PTE <all major source thrsh
 Acreage: 32.40
 Alternate Facility Name: Liters Inc Irvington Quarry
 Alternate Facility End Date: Not reported
 Principal Product: STONE
 State Plant Class Code: X000
 DAQ AI Type: MINING-Nonmetal Mineral Mining & Quarrying (2123)
 DAQ Reg Comment: Not reported
 Mailing Address Line 2: Not reported
 Inspector Assigned AI: Amanda Aldridge
 Last Inspection Lead: Mr. Steve Sanders
 Last Inspection Date: 07/11/2012
 Air Programs: 0-SIP Source
 Air Subparts: Not Applicable

Emission:
 Year: 2012
 County: Breckinridge
 Facility ID: 2102700007

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2012
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998
Year:	2010
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2010
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998
Year:	2013
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2013
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998
Year:	2014
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2014
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998
Year:	2017
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126282
Year:	2017
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM2.5 (Particulate Matter - 2.5 Microns Or Less)
Actual Emissions:	5.365254
Year:	2017
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593
Year:	2015
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2015
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998
Year:	2011
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2011
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421

MAP FINDINGS

Map ID
 Direction
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998
Year:	2016
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	19.126281689999999
Year:	2016
County:	Breckinridge
Facility ID:	2102700007
Facility Name:	Liters Inc
AI ID:	421
Pollutant:	PT (Particulate Matter)
Actual Emissions:	34.602593069999998

Name:	MAGO CONSTRUCTION CO LLC
Address:	1382 KY 477
City,State,Zip:	IRVINGTON, KY 40146
Facility:	2102700006
Mailing Address 3:	Not reported
Emps:	4
Plant Class Description:	X; Minor/All PTE <all major source thrsh
Acreage:	0.50
Alternate Facility Name:	Mago Construction Co LLC - Irvington HMA
Alternate Facility End Date:	Not reported
Principal Product:	ASPHALT
State Plant Class Code:	X000
DAQ AI Type:	CONST-Construction Industry (23)
DAQ Reg Comment:	Not reported
Mailing Address Line 2:	Not reported
Inspector Assigned AI:	Amanda Aldridge
Last Inspection Lead:	Not reported
Last Inspection Date:	Not reported
Air Programs:	0-SIP Source; 9-NSPS
Air Subparts:	Not Applicable; 9-I-Hot Mix Asphalt

Emission:	
Year:	2012
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	2.3392589799999999
Year:	2012
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	1.6593260000000001

MAP FINDINGS

Map ID
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Year: 2012
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: PM10 (Particulate Matter - 10 Microns Or Less)
 Actual Emissions: 0.45129585

Year: 2012
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: PT (Particulate Matter)
 Actual Emissions: 1.3387236499999999

Year: 2012
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: SO2 (Sulfur Dioxide)
 Actual Emissions: 1.0851244

Year: 2012
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: VOC (Volatile Organic Compounds)
 Actual Emissions: 0.80285662000000002

Year: 2013
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: CO (Carbon Monoxide)
 Actual Emissions: 3.8693435199999997

Year: 2013
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: NO2 (Nitrogen Dioxide)
 Actual Emissions: 1.8452000000000002

Year: 2013
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: PM10 (Particulate Matter - 10 Microns Or Less)
 Actual Emissions: 0.71975442000000001

Year: 2013

MAP FINDINGS

Map ID
 Direction
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PT (Particulate Matter)
Actual Emissions:	2.1975361100000002
Year:	2013
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	SO2 (Sulfur Dioxide)
Actual Emissions:	1.3952560000000001
Year:	2013
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	VOC (Volatile Organic Compounds)
Actual Emissions:	1.38851104
Year:	2014
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	3.22345857
Year:	2014
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	1.5771575000000002
Year:	2014
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	0.58554833000000006
Year:	2014
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PT (Particulate Matter)
Actual Emissions:	1.8148331899999999
Year:	2014
County:	Breckinridge

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	SO2 (Sulfur Dioxide)
Actual Emissions:	1.3519640000000002
Year:	2014
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	VOC (Volatile Organic Compounds)
Actual Emissions:	1.1540469600000001
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	Arsenic, Total (as As)
Actual Emissions:	0.000009
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	Benzene
Actual Emissions:	0.006464
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	Carbon Dioxide
Actual Emissions:	613.543500
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	Chromium, Total (as Cr)
Actual Emissions:	0.000090
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	2.215323
Year:	2017
County:	Breckinridge
Facility ID:	2102700006

MAP FINDINGS

Map ID
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Ethylbenzene
 Actual Emissions: 0.004182

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Formaldehyde
 Actual Emissions: 0.052070

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Hexane; N-Hexane
 Actual Emissions: 0.000301

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Lead, Total (as Pb)
 Actual Emissions: 0.000010

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Manganese
 Actual Emissions: 0.000126

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Mercury, Total (as Hg)
 Actual Emissions: 0.000004

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: Methane
 Actual Emissions: 0.202195

Year: 2017
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

AI ID:	4805
Pollutant:	Nitrous Oxide
Actual Emissions:	0.001375
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	0.486807
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	0.405650
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PM2.5 (Particulate Matter - 2.5 Microns Or Less)
Actual Emissions:	0.146585
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PT (Particulate Matter)
Actual Emissions:	1.250138
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	SO2 (Sulfur Dioxide)
Actual Emissions:	0.055861
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	Toluene
Actual Emissions:	0.002714
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Pollutant:	VOC (Volatile Organic Compounds)
Actual Emissions:	0.788569
Year:	2017
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	Xylenes (Total)
Actual Emissions:	0.004109
Year:	2010
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	1.008297
Year:	2010
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	0.24842099999999998
Year:	2010
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	0.65917976
Year:	2010
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PT (Particulate Matter)
Actual Emissions:	2.1040193
Year:	2010
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	SO2 (Sulfur Dioxide)
Actual Emissions:	3.50712
Year:	2010
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	VOC (Volatile Organic Compounds)

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Actual Emissions:	0.71603700000000003
Year:	2015
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	3.14479021
Year:	2015
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	0.94268199999999991
Year:	2015
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	0.54086235000000005
Year:	2015
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PT (Particulate Matter)
Actual Emissions:	1.63233124000000001
Year:	2015
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	SO2 (Sulfur Dioxide)
Actual Emissions:	7.4613800000000008E-2
Year:	2015
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	VOC (Volatile Organic Compounds)
Actual Emissions:	1.04412427
Year:	2011
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	0.92077050000000005

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

Year:	2011
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	0.22685649999999999
Year:	2011
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PM10 (Particulate Matter - 10 Microns Or Less)
Actual Emissions:	0.69767328000000006
Year:	2011
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	PT (Particulate Matter)
Actual Emissions:	2.18521168000000001
Year:	2011
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	SO2 (Sulfur Dioxide)
Actual Emissions:	3.20267999999999995
Year:	2011
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	VOC (Volatile Organic Compounds)
Actual Emissions:	0.65388050000000009
Year:	2016
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	CO (Carbon Monoxide)
Actual Emissions:	3.77981333000000001
Year:	2016
County:	Breckinridge
Facility ID:	2102700006
Facility Name:	Mago Construction Co LLC
AI ID:	4805
Pollutant:	NO2 (Nitrogen Dioxide)
Actual Emissions:	1.51589361
Year:	2016

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site Database(s) EDR ID Number
 EPA ID Number

LITERS INC (Continued)

S108311851

County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: PM10 (Particulate Matter - 10 Microns Or Less)
 Actual Emissions: 0.60532233000000002

Year: 2016
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: PT (Particulate Matter)
 Actual Emissions: 1.77773615

Year: 2016
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: SO2 (Sulfur Dioxide)
 Actual Emissions: 8.2552449999999999E-2

Year: 2016
 County: Breckinridge
 Facility ID: 2102700006
 Facility Name: Mago Construction Co LLC
 AI ID: 4805
 Pollutant: VOC (Volatile Organic Compounds)
 Actual Emissions: 1.14039537

17
WSW
1/8-1/4
0.181 mi.
958 ft.

FORMER SOUTHERN STATES COOP
212 E CAROLINE ST
IRVINGTON, KY 40146

UST U004273903
N/A

Actual:
618 ft.
Focus Map:
26

UST:
 Name: FORMER SOUTHERN STATES COOP
 Address: 212 E CAROLINE ST
 City,State,Zip: IRVINGTON, KY 40146
 Sequence Id: 1467014
 Facility ID: 65430
 Owner Name: Ashland Inc
 Owner Address: 5200 Blazer Pkwy
 Owner Address2: Not reported
 Owner Address3: Not reported
 Owner City,St,Zip: Dublin, OH 43017
 Internal Document ID: 0
 Latitude: 37.881198
 Longitude: -86.281052

 Inert Material Code: Not reported
 Removed Date: 01/01/1900
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FORMER SOUTHERN STATES COOP (Continued)

U004273903

Tank Overfill Protection: UNK
 Last Tank Test Date: Not reported
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: UNK
 Pipe Rel Detect Suc Code: UNK
 Pipe Leak Detect Code: NA
 Last Contained Date: Not reported
 Pipe Mfg Code: Not reported
 Last Pipe Test Date: Not reported
 Last CP Test Date: Not reported
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Removed Prior to 1988
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprd: Unknown
 Decode For Treldetcod: None
 Decode For Tintprotcd: Unknown
 Decode For Tsplprevcd: Unknown
 Decode For Tovflprvcd: Unknown
 Decode For Pmatcode: Single Wall Steel
 Decode For Pextcoprd: Unknown
 Decode For Ptypecode: Unknown
 Decode For Preldetcod: Unknown
 Decode For Preldetsuc: Unknown
 Decode For Plekdetcod: Not Applicable
 Decode For Tsubcd: Gasoline
 Decode For Tmancd: Not reported
 Decode For Pmancd: Not reported
 Subject Item ID: 1
 Tank Status: TR8
 Installation Date: 01/01/1967
 Closed In Place Date: Not reported
 Capacity in Gallons: 550
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

18
 East
 1/4-1/2
 0.323 mi.
 1705 ft.

IRVINGTON ELEMENTARY SCHOOL
611 SOUTH 1ST ST
IRVINGTON, KY 40146

SHWS S106884240
N/A

Actual:
626 ft.
Focus Map:
26

SHWS:
 Name: IRVINGTON ELEMENTARY SCHOOL
 Address: 611 SOUTH 1ST ST
 City,State,Zip: IRVINGTON, KY 40146
 Facility Id: 45524
Status: Closed
 Description: IRVINGTON ELEMENTARY SCHOOL (Closed: Restored)
 Closure Date: 03/25/1998
 Longitude: -86.289977
 Latitude: 37.874901
 Subject Item County: Breckinridge
 Sub Item Longitude: -86.290165
 Sub Item Latitude: 37.875081

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
----------------------------------------------	--	-------------	--------------------------------

IRVINGTON ELEMENTARY SCHOOL (Continued)

S106884240

Subject Item Address: 611 W US 60
 Subject Item Address2: Not reported
 Subject Item City,St,Zip: Irvington, KY 40146
 Regulatory Desc: Petroleum Cleanup
 Closure Option: Option C Restored
 Side SG: 47925

19 **CITY OF IRVINGTON**
ESE **109 W. CAROLINE STREET**
1/4-1/2 **IRVINGTON, KY 40146**
0.346 mi.
1826 ft.

SWRCY **S123304860**
N/A

Actual: SWRCY:
628 ft. Name: CITY OF IRVINGTON
Focus Map: Address: 109 W. CAROLINE STREET
26 City,State,Zip: IRVINGTON, KY 40146
 Facility Type: GOVERNMENT FACILITY
 Contact Name: Jennifer Newton
 Contact Name2: Not reported
 Contact Phone: (270) 547-3835
 Contact Phone2: Not reported
 Serves: CITY
 Function: DROPOFF
 Material Accepted: AL, PL(HDPE, PET), OCC, OPMIX, OPSORT, MRP
 Notes: Recycling The City of Irvington Recycles! We have recycling trailers
 located at: Circle K Irvington Elementary School Irvington City Hall
 Items you may recycle include: Cardboard Plastic Coffee Containers
 Milk Jugs Newspaper Aspirin Bottles Plastic Yooahoo Bottle White Paper
 Creamer Containers Water Bottles Laundry Detergent Fabric Softer
 Bottles Soda Bottles Bleach Bottles Cleaning Supply Bottles White Milk
 Jugs

20 **CIRCLE K #3326**
ESE **503 W US 60**
1/4-1/2 **IRVINGTON, KY 40146**
0.411 mi.
2171 ft.

PSTEAF **U004179712**
UST **N/A**

Actual: PSTEAF:
627 ft. Name: CIRCLE K #3326
Focus Map: Address: 503 W US 60
26 City,State,Zip: IRVINGTON, KY 40146
 Facility Id: 56707
 Al Number: 56707
 UST Id Number: 1645014
 Rank: 2
 Financial Account: PST
 Project Manager: Hickerson

UST:
 Name: CIRCLE K #3326
 Address: 503 W US 60
 City,State,Zip: IRVINGTON, KY 40146
 Sequence Id: 1645014
 Facility ID: 56707

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Owner Name:	E Griffin
Owner Address:	274 Boaz Ln
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Mount Washington, KY 40047
Internal Document ID:	0
Latitude:	37.875158
Longitude:	-86.287769
Inert Material Code:	Not reported
Removed Date:	11/09/1999
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	ALT
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldecd:	Daily Inventory Rec Tank Tightness
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Pressurized
Decode For Preldecd:	Line Tightness Test
Decode For Preldecd:	Annual Release Testing (historic)
Decode For Plekdecd:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TRM
Installation Date:	01/01/1988
Closed In Place Date:	06/04/1998
Capacity in Gallons:	4000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Tank Mfg Code:	FRP
Tank Overfill Protection:	ASD
Last Tank Test Date:	09/02/2014
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	NON
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	01/14/2019
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	01/09/2008
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprd:	Not Applicable
Decode For Treltcd:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltcd:	None
Decode For Preltcdsuc:	None
Decode For Plekdetcd:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	Fiberglass Manufacturer Unknown
Decode For Pmancd:	OPW Pices
Subject Item ID:	11
Tank Status:	TAC
Installation Date:	11/06/2007
Closed In Place Date:	Not reported
Capacity in Gallons:	4000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	FRP
Tank Overfill Protection:	ASD
Last Tank Test Date:	09/02/2014
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	NON
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	01/14/2019
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Added To Piping Date: 01/09/2008
 Decode For Tstatus: Active
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Fiberglass Reinforced
 Decode For Textcrprd: Not Applicable
 Decode For Treltcd: Automatic Tank Gauging
 Decode For Tintprotcd: Not Applicable
 Decode For Tsplprevcd: Single Wall Spill Bucket
 Decode For Tovflprvcd: Automatic Shutoff Device
 Decode For Pmatcode: Fiberglass Reinforced Plastic
 Decode For Pextcoprd: Not Applicable
 Decode For Ptypecode: Pressurized
 Decode For Preldetcd: None
 Decode For Preldetsuc: None
 Decode For Plekdetcd: Not Applicable
 Decode For Tsubcd: GAS-UNL-Reg Unl Gas
 Decode For Tmancd: Fiberglass Manufacturer Unknown
 Decode For Pmancd: OPW Pices
 Subject Item ID: 10
 Tank Status: TAC
 Installation Date: 11/06/2007
 Closed In Place Date: Not reported
 Capacity in Gallons: 10000
 Compartment Number: 1
 Piping Installation Date: Not reported
 Added To Tank Date: Not reported

 Inert Material Code: Not reported
 Removed Date: Not reported
 Change in Service Date: Not reported
 Tank Pit Num: Not reported
 Tank Mfg Code: STI
 Tank Overfill Protection: ASD
 Last Tank Test Date: 05/06/2019
 Relined Date: Not reported
 Lining Insp Date: Not reported
 Pipe Release Detection: LTT
 Pipe Rel Detect Suc Code: NON
 Pipe Leak Detect Code: MLD
 Last Contained Date: Not reported
 Pipe Mfg Code: OPW
 Last Pipe Test Date: 01/09/2020
 Last CP Test Date: 04/05/2017
 Added To Flex Date: Not reported
 Added To Piping Date: Not reported
 Decode For Tstatus: Active
 Decode For Inertmatcd: Not reported
 Decode For Tmatcode: Single Wall Steel
 Decode For Textcrprd: Coating & Cathodic Protection
 Decode For Treltcd: Automatic Tank Gauging
 Decode For Tintprotcd: Not Applicable
 Decode For Tsplprevcd: Double Wall Spill Bucket
 Decode For Tovflprvcd: Automatic Shutoff Device
 Decode For Pmatcode: Flexible Wall
 Decode For Pextcoprd: Not Applicable
 Decode For Ptypecode: Pressurized
 Decode For Preldetcd: Line Tightness Test

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Decode For Preadetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	Diesel
Decode For Tmancd:	STI-P3
Decode For Pmancd:	OPW Pices
Subject Item ID:	7
Tank Status:	TAC
Installation Date:	07/02/1999
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	ASD
Last Tank Test Date:	05/06/2019
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	01/09/2020
Last CP Test Date:	04/05/2017
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treldecod:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Flexible Wall
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preadetcod:	Line Tightness Test
Decode For Preadetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	GAS-PRM-Prem Unl Gas
Decode For Tmancd:	STI-P3
Decode For Pmancd:	OPW Pices
Subject Item ID:	6
Tank Status:	TAC
Installation Date:	07/02/1999
Closed In Place Date:	Not reported
Capacity in Gallons:	4000
Compartment Number:	2
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	ASD
Last Tank Test Date:	05/06/2019
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	01/09/2020
Last CP Test Date:	04/05/2017
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treltdetcd:	Automatic Tank Gauging
Decode For Tintproctd:	Not Applicable
Decode For Tsplprvcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Flexible Wall
Decode For Pextcoprpd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preltdetcd:	Line Tightness Test
Decode For Preltdetsuc:	None
Decode For Plekdetcd:	Manual Line Leak Detection
Decode For Tsubcd:	GAS-UNL-Reg Unl Gas
Decode For Tmancd:	STI-P3
Decode For Pmancd:	OPW Pices
Subject Item ID:	6
Tank Status:	TAC
Installation Date:	07/02/1999
Closed In Place Date:	Not reported
Capacity in Gallons:	8000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

Inert Material Code:	Not reported
Removed Date:	11/10/1999
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	ALT
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	None
Decode For Treldetcod:	Daily Inventory Rec Tank Tightness
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	Annual Release Testing (historic)
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	5
Tank Status:	TRM
Installation Date:	01/01/1977
Closed In Place Date:	06/04/1998
Capacity in Gallons:	3000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	11/10/1999
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	ALT
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	None
Decode For Treldetcod:	Daily Inventory Rec Tank Tightness
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	Annual Release Testing (historic)
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	4
Tank Status:	TRM
Installation Date:	01/01/1977
Closed In Place Date:	06/04/1998
Capacity in Gallons:	3000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	11/09/1999
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	ALT
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	Daily Inventory Rec Tank Tightness
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	Annual Release Testing (historic)
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	3
Tank Status:	TRM
Installation Date:	01/01/1988
Closed In Place Date:	06/04/1998

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Capacity in Gallons:	4000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	11/10/1999
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	ALT
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Unknown
Decode For Treltdetcd:	Daily Inventory Rec Tank Tightness
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Pressurized
Decode For Preldetcd:	Line Tightness Test
Decode For Preldetsuc:	Annual Release Testing (historic)
Decode For Plekdetcd:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	1
Tank Status:	TRM
Installation Date:	01/01/1988
Closed In Place Date:	06/04/1998
Capacity in Gallons:	4000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	ASD
Last Tank Test Date:	05/06/2019
Relined Date:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Lining Insp Date:	Not reported
Pipe Release Detection:	NON
Pipe Rel Detect Suc Code:	CKV
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	Not reported
Last CP Test Date:	04/05/2017
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treldetcod:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Double Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Flexible Wall
Decode For Pextcoprpd:	Not Applicable
Decode For Ptypecode:	Suction
Decode For Preldetcod:	None
Decode For Preldetsuc:	Check Valve
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	STI-P3
Decode For Pmancd:	OPW Pices
Subject Item ID:	9
Tank Status:	TAC
Installation Date:	07/02/1999
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	STI
Tank Overfill Protection:	ASD
Last Tank Test Date:	05/06/2019
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	NON
Pipe Rel Detect Suc Code:	CKV
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	Not reported
Last CP Test Date:	04/05/2017
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCLE K #3326 (Continued)

U004179712

Decode For Textcrprd:	Coating & Cathodic Protection
Decode For Treltdetcod:	Automatic Tank Gauging
Decode For Tintprotcod:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Flexible Wall
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Suction
Decode For Preltdetcod:	None
Decode For Preltdetsuc:	Check Valve
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Kerosene
Decode For Tmancd:	STI-P3
Decode For Pmancd:	OPW Pices
Subject Item ID:	8
Tank Status:	TAC
Installation Date:	07/02/1999
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

Count: 1 records

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
GUSTON	1015781837	GERKIN PROPERTY DUMP	HAYSVILLE RD	40142	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: N/A
Date Made Active in Reports: 05/28/2020	Last EDR Contact: 06/30/2020
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/12/2020
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: N/A
Date Made Active in Reports: 05/28/2020	Last EDR Contact: 06/30/2020
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/12/2020
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: 800-424-9346
Date Made Active in Reports: 05/28/2020	Last EDR Contact: 06/30/2020
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/23/2020	Source: EPA
Date Data Arrived at EDR: 03/25/2020	Telephone: 800-424-9346
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 06/22/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/23/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 06/22/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 06/22/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/23/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 06/22/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 06/22/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/15/2020	Source: Department of the Navy
Date Data Arrived at EDR: 05/19/2020	Telephone: 843-820-7326
Date Made Active in Reports: 06/18/2020	Last EDR Contact: 05/14/2020
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/24/2020
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/20/2020	Telephone: 703-603-0695
Date Made Active in Reports: 05/15/2020	Last EDR Contact: 05/15/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/20/2020	Telephone: 703-603-0695
Date Made Active in Reports: 05/15/2020	Last EDR Contact: 05/15/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 05/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 06/03/2020
Number of Days to Update: 14

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 05/19/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/07/2020
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/01/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 06/22/2020
Number of Days to Update: 76

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 07/07/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 12/17/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-8677
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6271
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2019	Source: EPA Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/04/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3372
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-6597
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019	Source: EPA, Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-7439
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SB193: SB193 Branch Site Inventory List

The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

Date of Government Version: 09/05/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/13/2006	Telephone: 502-564-5981
Date Made Active in Reports: 10/18/2006	Last EDR Contact: 04/08/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 02/01/2020	Source: FEMA
Date Data Arrived at EDR: 03/19/2020	Telephone: 202-646-5797
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 07/06/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Varies

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/04/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/25/2020	Telephone: 502-564-5981
Date Made Active in Reports: 05/06/2020	Last EDR Contact: 05/26/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks

A listing of aboveground storage tank site locations.

Date of Government Version: 02/19/2020	Source: Office of State Fire Marshal
Date Data Arrived at EDR: 02/20/2020	Telephone: 502-564-4010
Date Made Active in Reports: 04/29/2020	Last EDR Contact: 05/19/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2019	Source: EPA, Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6137
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-7591
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/04/2019	Source: EPA Region 9
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3368
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/01/2019	Source: EPA Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-6136
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-9424
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/11/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/04/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/20/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing
A listing of sites that use engineering controls.

Date of Government Version: 05/19/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/20/2020	Telephone: 502-564-6716
Date Made Active in Reports: 06/04/2020	Last EDR Contact: 05/19/2020
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

INST CONTROL: State Superfund Database

A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.

Date of Government Version: 05/19/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/20/2020	Telephone: 502-564-6716
Date Made Active in Reports: 06/03/2020	Last EDR Contact: 05/19/2020
Number of Days to Update: 14	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/17/2020
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 03/23/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/24/2020	Telephone: 502-564-6716
Date Made Active in Reports: 06/04/2020	Last EDR Contact: 06/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/12/2020
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Date of Government Version: 02/10/2020	Source: Division of Compliance Assistance
Date Data Arrived at EDR: 02/11/2020	Telephone: 502-564-0323
Date Made Active in Reports: 04/20/2020	Last EDR Contact: 07/08/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/26/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/01/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/02/2020	Telephone: 202-566-2777
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 06/02/2020
Number of Days to Update: 7	Next Scheduled EDR Contact: 09/28/2020
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Kentucky.

Date of Government Version: 09/13/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/23/2019	Telephone: 502-564-6716
Date Made Active in Reports: 01/03/2020	Last EDR Contact: 04/17/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Varies

HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

Date of Government Version: 05/01/2003	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/30/2006	Telephone: 502-564-6716
Date Made Active in Reports: 05/01/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 32	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 04/16/2020
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/10/2020
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 04/09/2020
Number of Days to Update: 137	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 05/01/2020
Number of Days to Update: 176	Next Scheduled EDR Contact: 08/10/2020
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 03/18/2020	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/19/2020	Telephone: 202-307-1000
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 05/18/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Location Listing

Clandestine drug lab site locations.

Date of Government Version: 04/03/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/08/2020	Telephone: 502-564-6716
Date Made Active in Reports: 06/03/2020	Last EDR Contact: 05/19/2020
Number of Days to Update: 56	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/19/2020	Telephone: 202-307-1000
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 05/18/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/27/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/23/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 04/02/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 06/23/2020
Number of Days to Update: 77

Source: DEP, Emergency Response
Telephone: 502-564-2380
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/28/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/06/2020
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/24/2020
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/23/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/24/2020	Telephone: 202-566-1917
Date Made Active in Reports: 06/18/2020	Last EDR Contact: 06/22/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/04/2020
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/08/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 06/17/2020
Number of Days to Update: 198	Next Scheduled EDR Contact: 09/28/2020
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 202-566-0250
Date Made Active in Reports: 04/24/2020	Last EDR Contact: 05/21/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 08/31/2020
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 05/01/2019	Source: EPA
Date Data Arrived at EDR: 10/23/2019	Telephone: 202-564-4203
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 04/21/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: 703-416-0223
Date Made Active in Reports: 05/28/2020	Last EDR Contact: 06/30/2020
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/14/2020
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/05/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/20/2019	Telephone: 202-564-8600
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 04/15/2020
Number of Days to Update: 149	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: 202-564-6023
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 06/30/2020
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 04/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/30/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 10/25/2019	Telephone: 301-415-7169
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 04/10/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018	Source: Department of Energy
Date Data Arrived at EDR: 12/04/2019	Telephone: 202-586-8719
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 06/05/2020
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/14/2020
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 06/01/2020
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/14/2020
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/08/2020
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/24/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/12/2020
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 04/28/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/10/2020
	Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2019	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 01/17/2020	Telephone: Varies
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 07/06/2020
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015	Source: EPA/NTIS
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-424-9346
Date Made Active in Reports: 09/28/2017	Last EDR Contact: 06/22/2020
Number of Days to Update: 218	Next Scheduled EDR Contact: 10/05/2020
	Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/07/2020
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 04/29/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 05/18/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/31/2020
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/06/2020	Telephone: 703-603-8787
Date Made Active in Reports: 05/28/2020	Last EDR Contact: 06/30/2020
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/12/2020
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/31/2020	Source: DOL, Mine Safety & Health Admi
Date Data Arrived at EDR: 04/01/2020	Telephone: 202-693-9424
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 05/27/2020
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/14/2020
	Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/11/2020	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 02/25/2020	Telephone: 303-231-5959
Date Made Active in Reports: 05/21/2020	Last EDR Contact: 05/21/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/16/2018	Source: USGS
Date Data Arrived at EDR: 02/28/2020	Telephone: 703-648-7709
Date Made Active in Reports: 05/22/2020	Last EDR Contact: 05/27/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 05/21/2020
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/05/2020	Source: Department of Interior
Date Data Arrived at EDR: 03/06/2020	Telephone: 202-208-2609
Date Made Active in Reports: 05/29/2020	Last EDR Contact: 06/19/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/21/2020
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2020	Source: EPA
Date Data Arrived at EDR: 03/03/2020	Telephone: (404) 562-9900
Date Made Active in Reports: 05/28/2020	Last EDR Contact: 06/02/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/14/2020
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 05/18/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 07/09/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 10/26/2020
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/07/2020	Telephone: 202-564-2280
Date Made Active in Reports: 06/26/2020	Last EDR Contact: 07/02/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/18/2020	Source: EPA
Date Data Arrived at EDR: 02/19/2020	Telephone: 800-385-6164
Date Made Active in Reports: 05/14/2020	Last EDR Contact: 05/19/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 08/31/2020
	Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/14/2020
Date Data Arrived at EDR: 02/14/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

ASBESTOS: Asbestos Notification Listing Asbestos sites

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 06/04/2020
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 502-782-6780
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites A listing of coal ash pond site locations.

Date of Government Version: 04/17/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 05/06/2020
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

Date of Government Version: 02/14/2020
Date Data Arrived at EDR: 02/14/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing A listing of financial assurance information.

Date of Government Version: 04/17/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/07/2020
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 06/24/2014
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/29/2020
Number of Days to Update: 69

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD: Environmental Lead Program Report Tracking Database
Lead Report Tracking Database

Date of Government Version: 01/27/2017	Source: Department of Public Health
Date Data Arrived at EDR: 02/02/2017	Telephone: 502-564-4537
Date Made Active in Reports: 08/21/2017	Last EDR Contact: 04/23/2020
Number of Days to Update: 200	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Varies

NPDES: Permitted Facility Listing
A listing of permitted wastewater facilities.

Date of Government Version: 02/25/2020	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/26/2020	Telephone: 502-564-3410
Date Made Active in Reports: 05/06/2020	Last EDR Contact: 04/23/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Semi-Annually

UIC: UIC Information
A listing of wells identified as underground injection wells, in the Kentucky Oil & Gas Wells data base.

Date of Government Version: 01/14/2020	Source: Kentucky Geological Survey
Date Data Arrived at EDR: 04/14/2020	Telephone: 859-323-0544
Date Made Active in Reports: 07/01/2020	Last EDR Contact: 04/14/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Quarterly

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011	Source: EPA, Office of Water
Date Data Arrived at EDR: 08/05/2011	Telephone: 202-564-2496
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 06/08/2020
Number of Days to Update: 55	Next Scheduled EDR Contact: 09/21/2020
	Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 05/21/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 09/07/2020
	Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 02/05/2015	Telephone: 202-564-2497
Date Made Active in Reports: 03/06/2015	Last EDR Contact: 07/01/2020
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014	Source: EPA
Date Data Arrived at EDR: 01/06/2015	Telephone: 202-564-2496
Date Made Active in Reports: 05/06/2015	Last EDR Contact: 07/09/2020
Number of Days to Update: 120	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/15/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 198	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/30/2020	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 01/30/2020	Telephone: 860-424-3375
Date Made Active in Reports: 03/09/2020	Last EDR Contact: 05/12/2020
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/24/2020
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 07/09/2020
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/19/2020
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/01/2019	Telephone: 518-402-8651
Date Made Active in Reports: 06/21/2019	Last EDR Contact: 04/29/2020
Number of Days to Update: 51	Next Scheduled EDR Contact: 08/10/2020
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2019	Telephone: 717-783-8990
Date Made Active in Reports: 09/10/2019	Last EDR Contact: 07/09/2020
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/26/2020
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/04/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Certified Child Care Homes

Source: Cabinet for Families & Children
Telephone: 502-564-7130

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

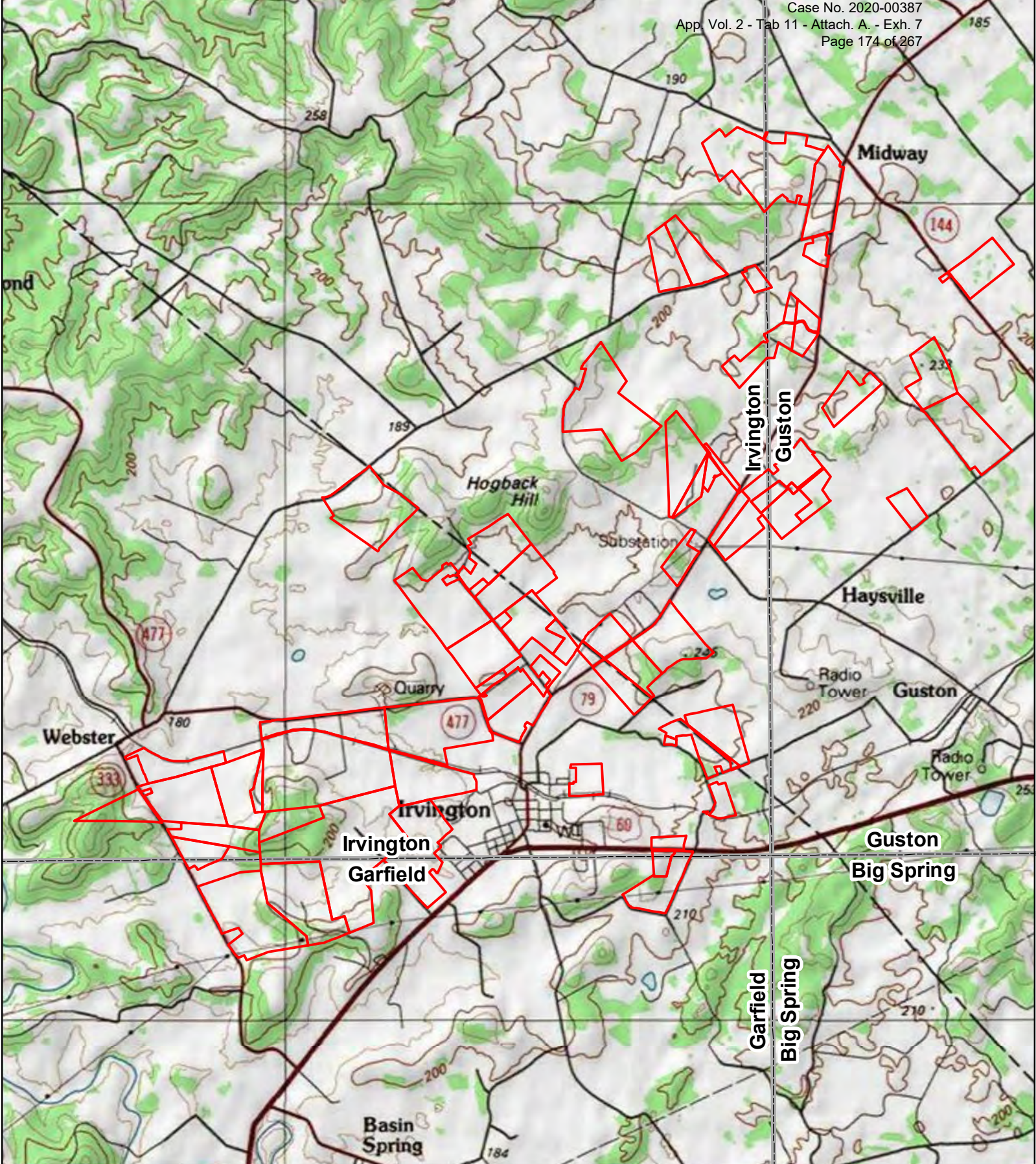
Source: Environmental & Public Protection Cabinet

Telephone: 502-564-6736

STREET AND ADDRESS INFORMATION

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ATTACHMENT 5
Garfield, Guston, and Irvington
USGS 7.5 Minute Quadrangles Map





Merino Solar
USGS 7.5' Quadrangles

Breckinridge and Meade Counties, Kentucky

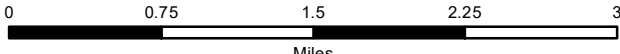

Date: 8/21/2020

File: Merino_Solar_Topo.mxd

Legend

-  Site 4,948 ac.
-  USGS 24K Topo Map Boundaries

1:60,000




ATTACHMENT 6

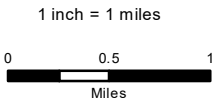
Historic Aerial Photographs

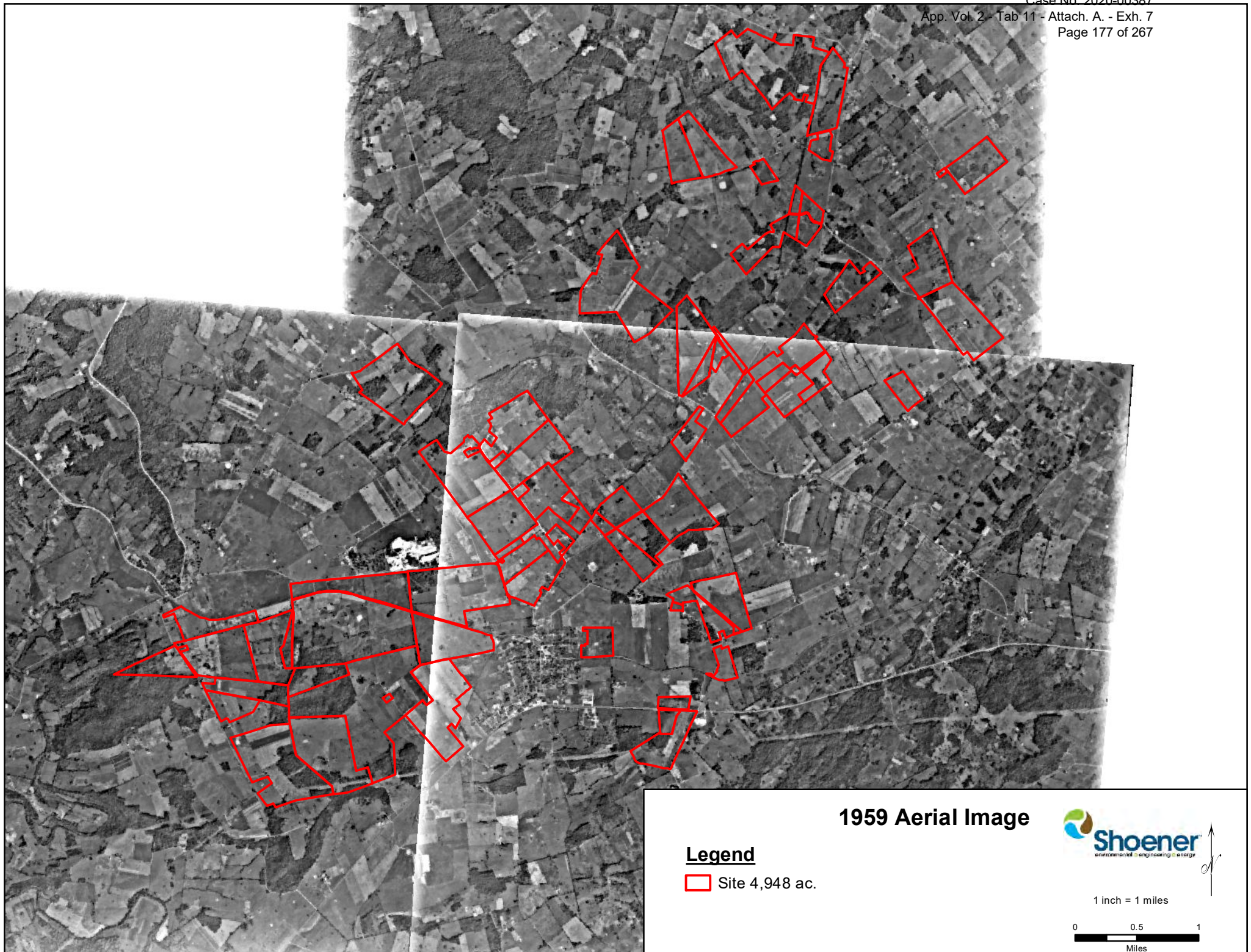


1951 Aerial Image

Legend


 Site 4,948 ac.



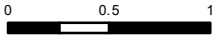


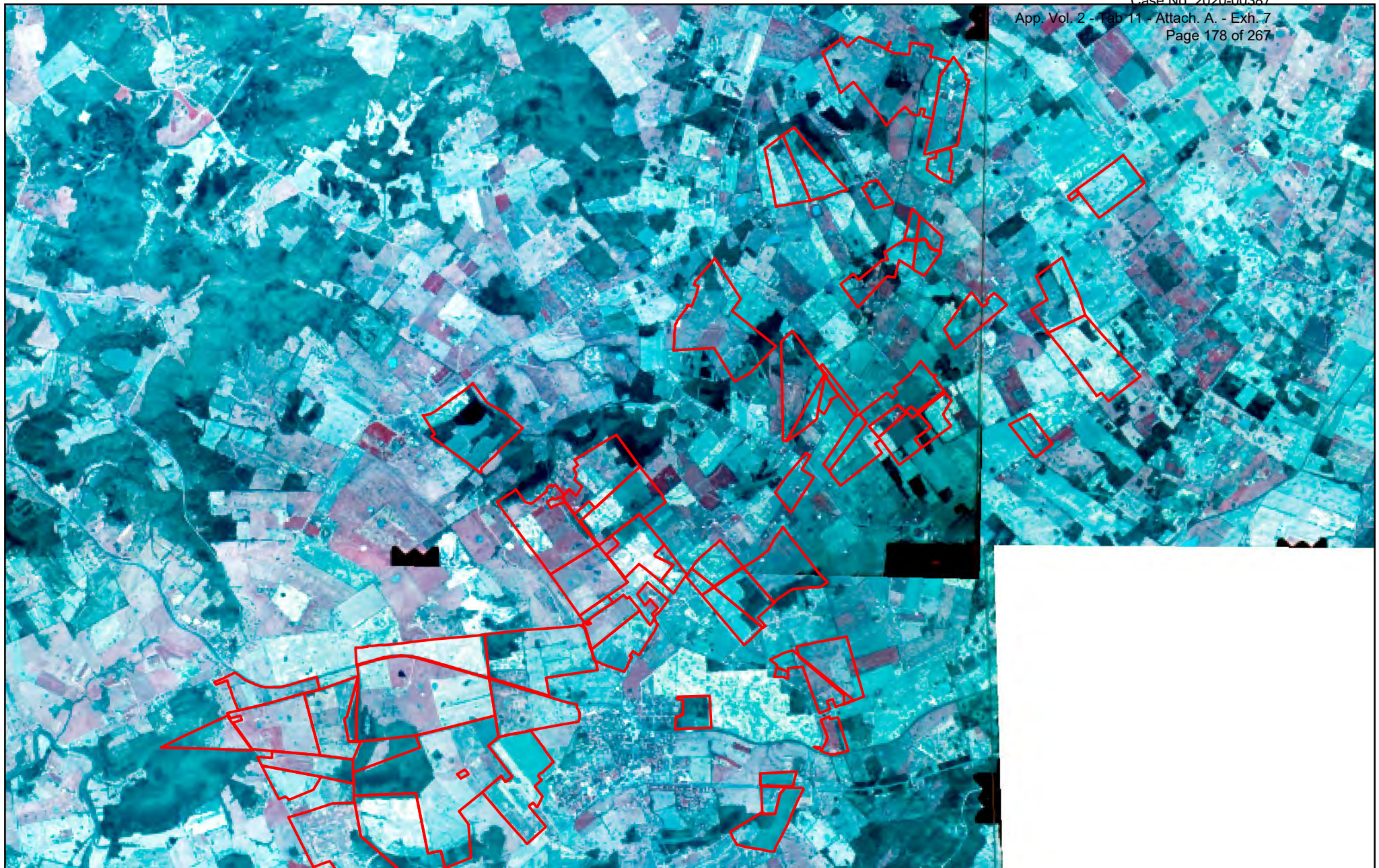


1959 Aerial Image

Legend


 Site 4,948 ac.



1 inch = 1 miles




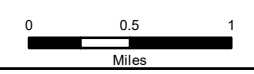
1982 Aerial Image

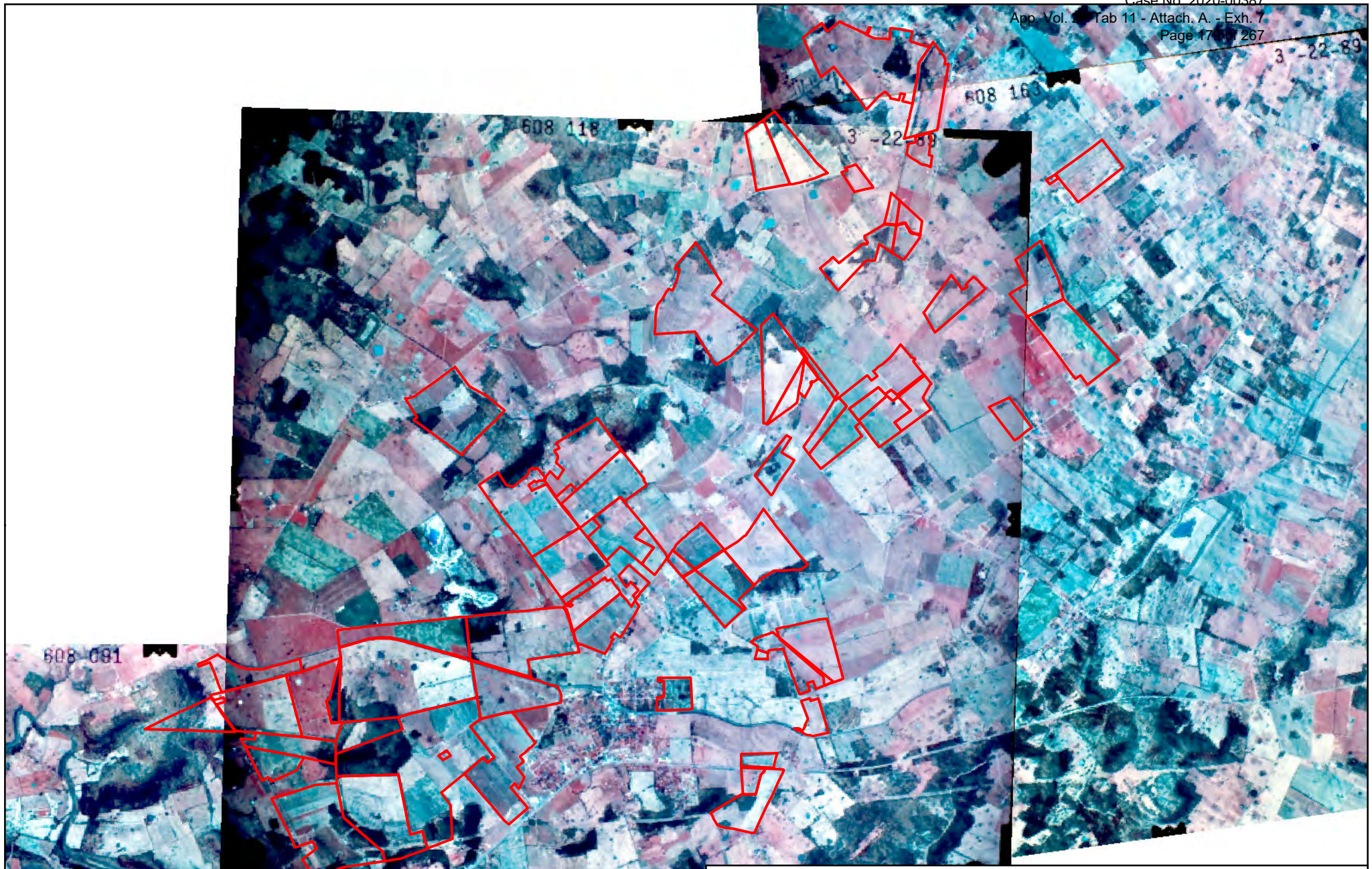
Legend

 Site 4,948 ac.




1 inch = 1 miles






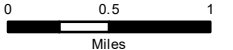
1989 Aerial Image

Legend

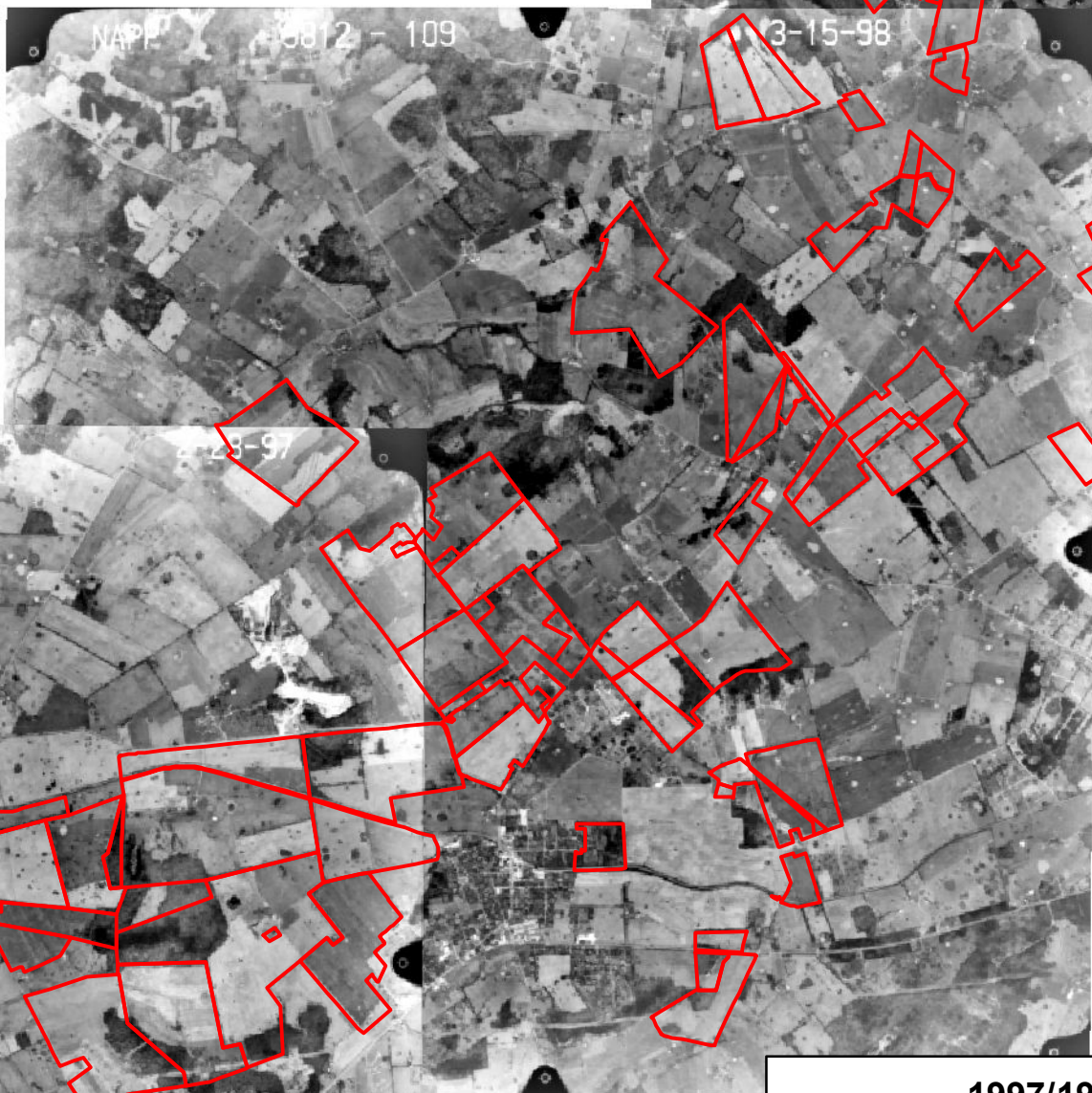
 Site 4,948 ac.



1 inch = 1 miles





Miles




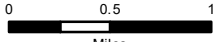
1997/1998 Aerial Image

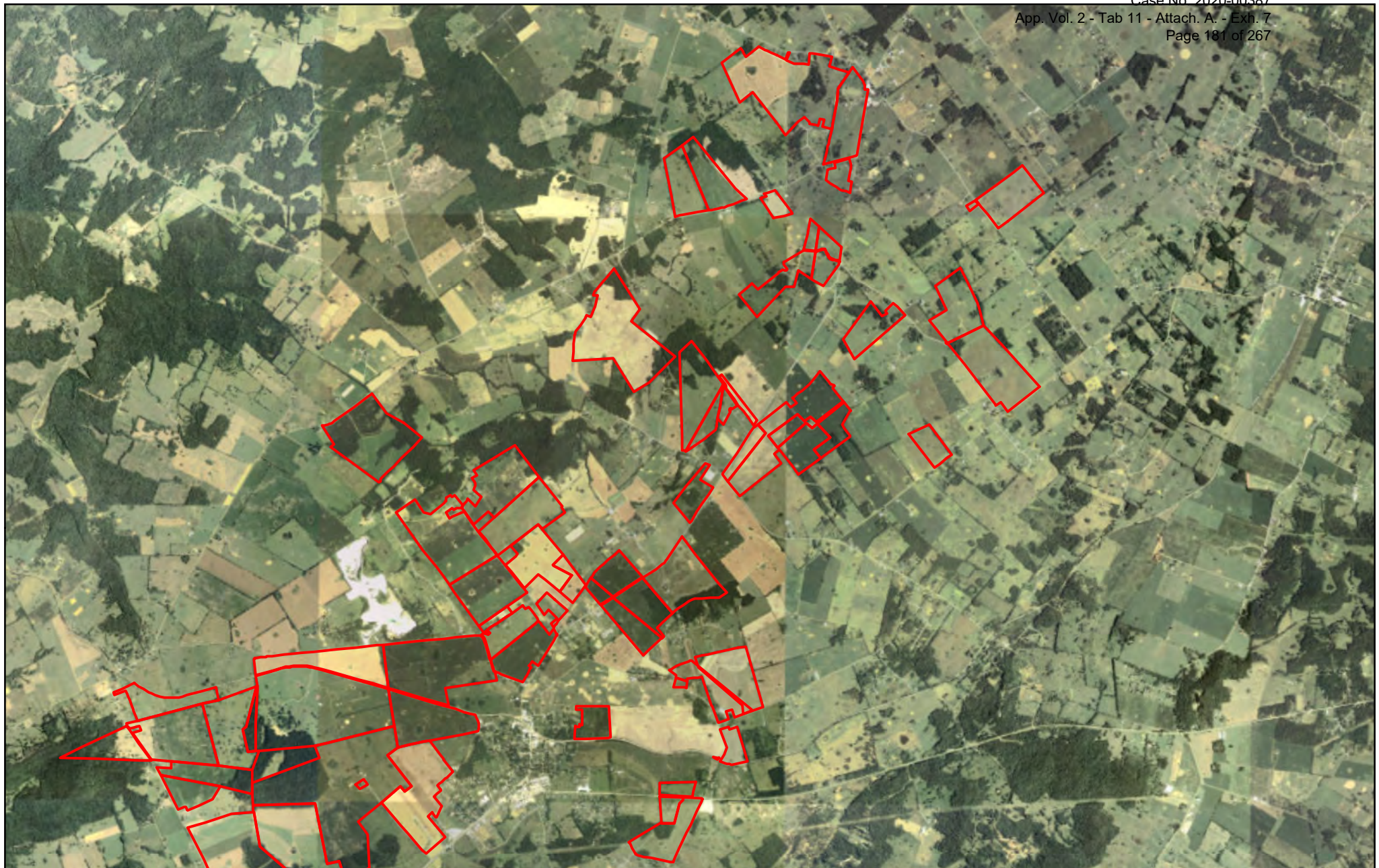
Legend

 Site 4,948 ac.




1 inch = 1 miles






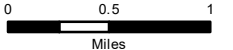
2004 Aerial Image

Legend


 Site 4,948 ac.

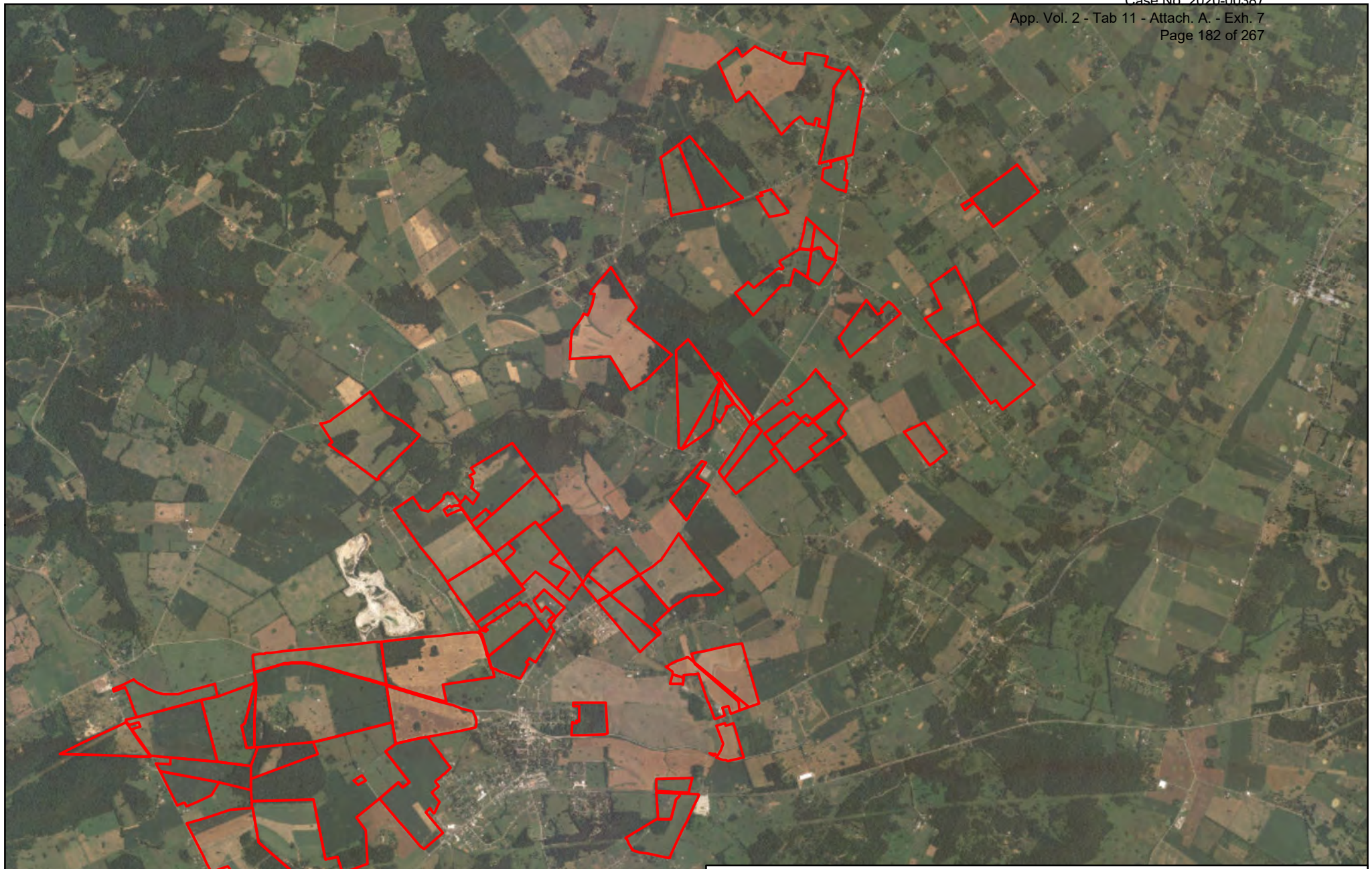


1 inch = 1 miles




Miles







2010 Aerial Image

Legend

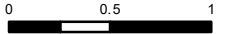
 Site 4,948 ac.



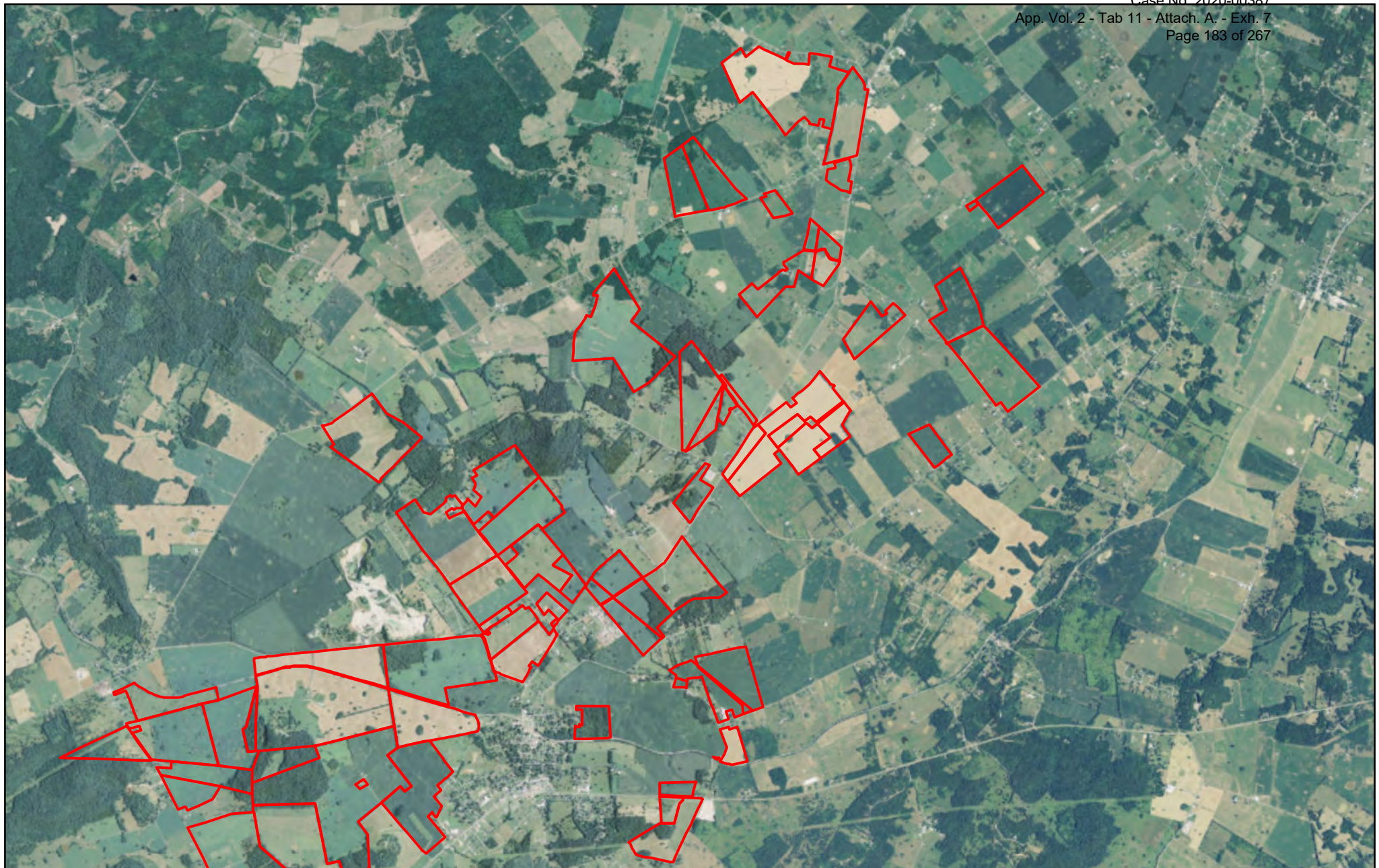
environmental • engineering • energy



1 inch = 1 miles





0 0.5 1
Miles




2014 Aerial Image

Legend

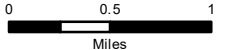
 Site 4,948 ac.



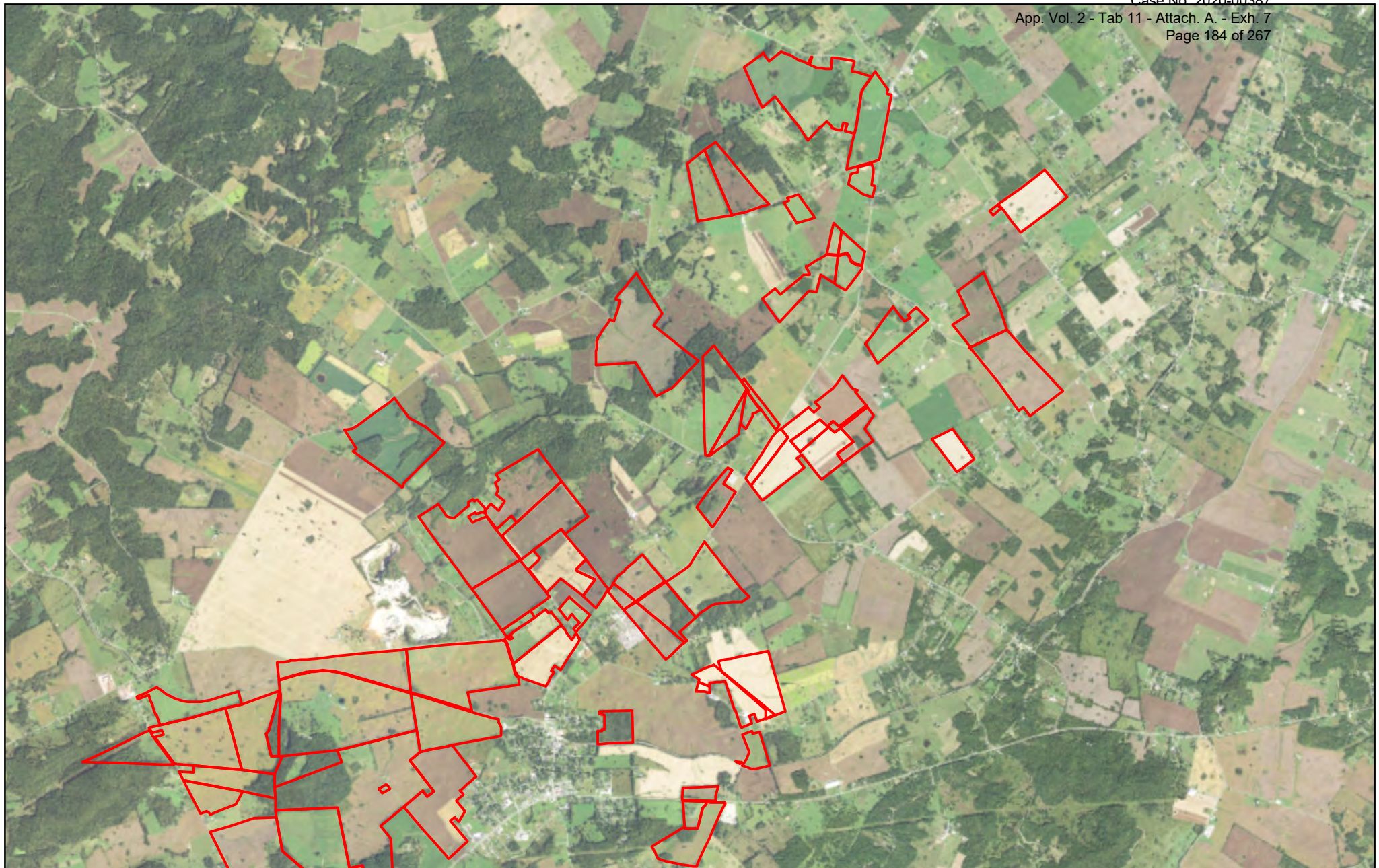
Shoener
environmental • engineering • energy



1 inch = 1 miles




0 0.5 1
Miles



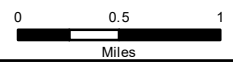
2018 Aerial Image

Legend

 Site 4,948 ac.



1 inch = 1 miles



ATTACHMENT 7

Interviews

X3. USER QUESTIONNAIRE INTRODUCTION

Completed By: Justin Wolf, Director of Development, Orion Renewable Energy Group, LLC
Project: Merino Solar, LLC
Date: 08/12/2020

In order to qualify for one of the *landowner liability protections (LLPs)*¹⁸⁸ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (the “*Brownfields Amendments*”),¹⁸⁹ the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that “*all appropriate inquiries*” is not complete.

(1.) *Environmental liens* that are filed or recorded against the *property* (40 CFR 312.25).

Did a search of *recorded land title records* (or judicial records where appropriate—see Note) identify any *environmental liens* filed or recorded against the *property* under federal, tribal, state or local law?

Note—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that *environmental liens* and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for *environmental liens* and AULs.

No, no one has reported environmental liens against the properties, but is under review by Shoener Environmental Inc.

(2.) *Activity and use limitations* that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.2(a)(1)(v) and vi)).

Did a search of *recorded land title records* (or judicial records where appropriate—see Note) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?

Note—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that *environmental liens* and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for *environmental liens* and AULs.

No, no one has reported Activity and Use Limitations against the properties, but is under review by Shoener Environmental Inc.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

No

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of *releases* or threatened *releases*? For example,.

(a.) Do you know the past uses of the *property*? **No**

(b.) Do you know of specific chemicals that are present or once were present at the *property*? **No, nothing beyond normal agricultural use.**

(c.) Do you know of spills or other chemical *releases* that have taken place at the *property*? **No**

(d.) Do you know of any environmental cleanups that have taken place at the *property*? **No**

(6.) The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?¹

No, not that I have seen.

¹⁸⁸ *Landowner Liability Protections*, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA’s *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* (“*Common Elements*” Guide) issued on March 6, 2003.¹⁸⁹ P.L. 107-118.

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Jaime Barger _____

Interviewer: Rob Schulte _____

Date: 8/6/2020 _____

1. How long have you owned/leased the property?

Purchased 2003

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - CROPS

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?

- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Richard Barger _____

Interviewer: Rob Schulte _____

Date: 8/6/2020 _____

1. How long have you owned/leased the property?

Purchased 2004

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - CROPS

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Elsie Carmen _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

Estimated purchased 1966

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – Hay, Ran Cattle Several Years Ago

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

YES – THERE IS A SEPTIC TANK STILL ON PROPERTY FROM OWNER'S RESIDENCE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Kerry Kasey_____

Interviewer: Rob Schulte_____

Date: 8/4/2020_____

1. How long have you owned/leased the property?

Board Farm – 1983

Merino – 1999/1998/2003

LKK – 1984

Irvington Gas - 1969

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - Crops

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to

past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?

- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Richard Lucas _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

Purchased 1997/2005

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – Hay, Pigs many years ago

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?

- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

YES – THERE IS A SEPTIC TANK STILL ON PROPERTY FROM OWNER'S RESIDENCE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Kim Millay _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

PURCHASED 2002/2004/2005/2010

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – RESIDENTIAL – RENTAL PROPERTY

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?

- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

YES – THERE ARE TWO SEPTIC TANKS STILL ON PROPERTY FROM OWNER'S RESIDENCE AND RENTAL HOME

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Bill Monin Jr _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

Bought 1995

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - Residential

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to

past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

YES – THERE IS A SEPTIC TANK STILL ON PROPERTY FROM OWNER'S RESIDENCE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Alex Richardson _____

Interviewer: Rob Schulte _____

Date: 8/6/2020 _____

1. How long have you owned/leased the property?

Purchased 2018

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – CROPS, LIVESTOCK

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Earl Roach _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

Purchased - 1998

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - Hay

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?

- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

YES – THERE IS A SEPTIC TANK STILL ON PROPERTY FROM MOBILE HOME THAT ONCE SAT ON PROPERTY

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Stephen Robbins _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

2000, but property has been in family many years prior

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - Crops

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property

NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

ABOVE GROUND GAS TANK THAT HAS BEEN EMPTY FOR MANY YEARS

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Charles Smith _____

Interviewer: Rob Schulte _____

Date: 8/4/2020 _____

1. How long have you owned/leased the property?

PURCHASED 1976

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - CROPS

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property

NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Jackie Smith _____

Interviewer: Rob Schulte _____

Date: 8/6/2020 _____

1. How long have you owned/leased the property?

Purchased 1999

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural - CROPS

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or surrounding area NONE
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the

property or relating to environmental liens encumbering the property
NONE

- Hazardous waste generator notices or reports NONE
- Geotechnical studies NONE
- Risk Assessments NONE
- Recorded Activity and Use Limitations (AULs) and NONE
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

NONE

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Dray Willoughby _____

Interviewer: Rob Schulte _____

Date: 8/6/2020 _____

1. How long have you owned/leased the property?

Willoughby Tract – 2002

Norton Farm – 2016

Johnson Farm – 2016

Stansbury Farm – 2016

Norton Farm – 2016

All tracts have been in the same family for many years before 2016

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – CROPS, CATTLE/RESIDENTIAL

No orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports NONE
- Environmental Compliance Audit reports NONE
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) NONE
- Registrations for underground and above-ground storage tanks NONE
- Registrations for underground injection systems NONE
- Material Safety Data sheets NONE
- Community Right-to-know Plan NONE
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans NONE
- Reports regarding hydro-geologic conditions on the property or

surrounding area NONE

- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property

NONE

- Hazardous waste generator notices or reports NONE

- Geotechnical studies NONE

- Risk Assessments NONE

- Recorded Activity and Use Limitations (AULs) and NONE

- Are you aware of any proceedings involving the property?

- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

NONE THAT OWNER KNOWS

- Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

- Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NONE THAT OWNER KNOWS

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

ON THE WILLOUGHBY TRACT, IN THE 1920'S THERE WAS AN APPROXIMATE 8 ACRE AREA THAT WAS BRIEFLY USED AS ROCK QUARRY. THIS IS LOCATED BEHIND THE WILLOUGHBY HOUSE IN THE WOODS. ORION IS NOT UTILIZING THE AREA WHERE THIS QUARRY WAS. THE ACTIVITY WAS BRIEF AND EVENTUALLY MOVED TO THE PRESENT DAY QUARRY NORTH OF HIGHWAY 477.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

NONE

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

THERE IS ONE TANK LOCATED WHERE THE QUARRY WAS. THE TANK HAS ALWAYS BEEN EMPTY, BUT IS QUITE LARGE. THE TANK WAS PUT THERE TO BLOCK A ROAD IN USE AT THE TIME. THERE IS A SEPTIC SYSTEM FOR THE WILLOUGHBY RESIDENCE ON THE WILLOUGHBY TRACT. THERE IS ANOTHER SEPTIC SYSTEM ON THE JOHNSON TRACT FROM A HOUSE THAT WAS TORN DOWN SEVERAL YEARS AGO.

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

NONE

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

NONE

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

NONE

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response)

NONE

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Gerald Mattingly

Date: 9-1-20

1. How long have you owned/leased the property?

Since 1995

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

None

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Delbert walls

Date: 9-3-20

1. How long have you owned/leased the property?

Since 1995

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

Gas well was drilled approximately 10 years ago. The well has since been removed.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Jerry Hardesty

Date: 9-1-20

1. How long have you owned/leased the property?

Since 1995

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

None.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Jerry Miles

Date: 9-1-20

1. How long have you owned/leased the property?

Since 1967

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

Old gas well on property but has not been active in over 50 years. Well was located on south end of property. The pipe to the well was removed several years ago.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Genieve Meador by Mike Meador

Date: 8-30-20

1. How long have you owned/leased the property?

Since 1981

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

None.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Mike Meador

Date: 8-30-20

1. How long have you owned/leased the property?

Since 1981

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

None.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

300 gallon gas tank above ground. It has not been used in many years.

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Lydia Richardson by Homer Richardson

Date: 8-30-20

1. How long have you owned/leased the property?

Since 2014

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

None.

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

Phase 1 Environmental Site Assessment Interview Questionnaire

Interviewee: Rob Schulte

Interviewer: Homer Richardson – Richardson Holdings

Date: 8-30-20

1. How long have you owned/leased the property?

Since 1987

2. Do you know the past uses of the property? Were there any historic orchards located on the property?

Agricultural – No Orchards

3. Do you know whether any of the following documents that pertain to any **hazardous substances** or **petroleum products** are in connection of the Site exist or are available?

- Environmental Site Assessment reports No
- Environmental Compliance Audit reports No
- Environmental permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES permits and underground injection permits) No
- Registrations for underground and above-ground storage tanks No
- Registrations for underground injection systems No
- Material Safety Data sheets No
- Community Right-to-know Plan No
- Safety plans; Preparedness and Prevention Plans; Spill Prevention, Countermeasure, and Control Plans; Facility Response Plans
- Reports regarding hydro-geologic conditions on the property or surrounding area No
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property No

- Hazardous waste generator notices or reports **No**
- Geotechnical studies **No**
- Risk Assessments **No**
- Recorded Activity and Use Limitations (AULs) and **No**
- Are you aware of any proceedings involving the property?
 - Pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
None
 - Pending, threatened, or past administrative proceedings to hazardous substances or petroleum products?
None
 - Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?
None

4. Are you aware of any present or past industrial activities on the Site? If so, specific location and what type of industrial use?

None

5. Are you aware of any gas station, motor repair shop, commercial printing facility, dry cleaner, photo lab, junkyard, landfill, or waste handling facilities on the property now or in the past?

None

6. Are you aware of any storage tanks (underground or above) on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

7. Are you aware of any industrial drums or sacks of chemicals on the property, now or in the past? If so, quantities, tank sizes, contents, and any spills?

None

8. Do you know of any environmental cleanups that have taken place on the Site? If so, specific location?

None

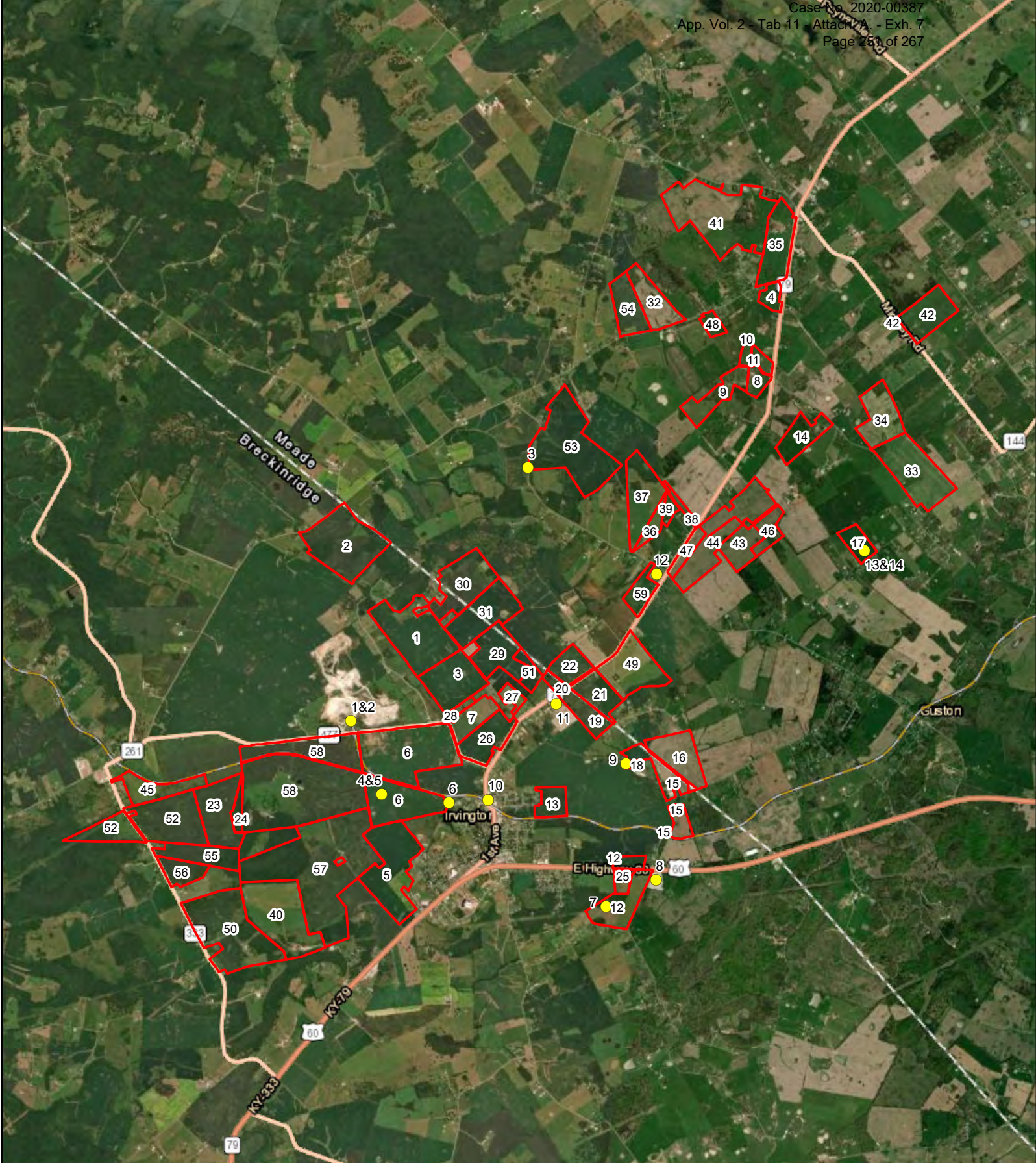
9. Do you know of any spills of hazardous substances or petroleum products that have taken place on the Site? If so, specific location, quantities and substances?

None

10. Have there ever been any environmentally related emergencies related to the Site? (Ex. emergency management agency, fire department or emergency response) None

ATTACHMENT 8

Site Reconnaissance



Merino Solar Photo Locations

Breckinridge and Meade Counties, Kentucky

Date: 8/21/2020

File: Merino_Solar_Photo locations.mxd

Legend

- Photo locations
- Site 4,948 ac.

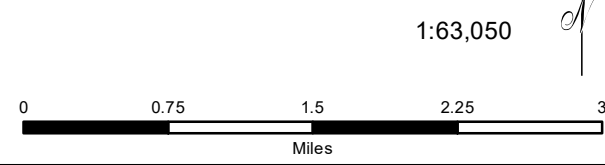




Photo 1: Outbuildings located near the Mago Construction Co LLC north of Parcel 6.



Photo 2: Adjoining asphalt plant located near the Mago Construction Co LLC north of Parcel 6.



Photo 3: Soybean field west of Parcel 53.



Photo 4: Sink hole.
(Parcel 6)



Photo 5: Additional view of the sink hole.
(Parcel 6)



Photo 6: Substation on adjoining property east of Parcel 6.



Photo 7: AT&T cell tower and generator.
(Parcel 12)



Photo 8: Key Oil Company LLC on adjoining property east of Parcel 12.



Photo 9: Collapsed house on adjoining property west of Parcel 19.



Photo 10: Railroad tracks running through the southern portion of the Site.



Photo 11: Masterson's Auto Parts & Salvage on adjoining property southwest of Parcel 14.



Photo 12: Substation on adjoining property southwest of Parcel 47.



Photo 13: Agricultural fields.
(Parcel 21)



Photo 14: Pasture/hay.
(Parcel 21)

ATTACHMENT 9
Resumes of Shoener Environmental
Representatives



Carlyle Meekins

Senior Ecologist/Project Manager

Mr. Meekins is an accomplished field biologist with over nine years of experience conducting and managing post-construction wildlife monitoring, avian and bat activity studies, and sensitive species habitat and wetland assessments. He oversees and leads personnel and trains operations staff in the regulations and procedures for mortality monitoring on renewable energy facilities. He manages schedules, data collection and management, and conducts statistical analysis. His experiences have included many taxa throughout the United States.

Core Experience

- 10+ Years in Research/Conservation
- Renewable Energy/Wildlife Issues
 - Avian and Bat Ecology
 - Project/Team Management
- Risk Minimization Technologies
- Wind and Solar Energy Development
 - Technical Writing

Education

B.S., California University of
Pennsylvania, 2010
Biology; Fisheries and Wildlife

Certifications/Affiliations

Wetland Delineation Training
The Wildlife Society (PA Chapter)
METADATA Certified
BLS CPR Certified
First Aid Certified

Contact

109 E. Main Street
Somerset, PA 15501
Office: (570) 489-6920 x401
Cell: (814) 442-9100
cmeekins@shoener.com

Professional Experience

Shoener Environmental, Inc. 2013 – Present
Ecologist/Project Manager

- Supervises and conducts bat and bird mortality studies at wind and solar energy facilities in CA, PA, IL, NY, TN, and WV
- Manages staff of up to eighteen seasonal technicians
- Develops conservation/management strategies for renewable energy facilities (e.g. Bird and Bat Conservation Strategies, Environmental Management Plans, etc.)
- Designs and performs endangered species surveys in accordance with state and federal protocols throughout the U.S.
- Conducts bat roost, bat telemetry, fixed-point avian use, raptor nest, rare plant, and herpetofauna surveys and wetland delineations and mapping
- Conducts preliminary site analyses (tiered approach) following USFWS guidelines for prospective wind energy facility locations
- Provides annual bat and bird identification training at wind facilities
- Analyzes data and contribute to monthly and annual reports
- Workplace Safety Coordinator

Great Basin Institute, U.S. Forest Service (USFS) 2011
Habitat Restoration Technician

- Removed invasives, constructed dams for restoration, and introduced native vegetation and wildlife habitat
- Conducted conservation meetings and educational seminars

U.S. Bureau of Reclamation (USBR) 2011
Research Biologist

- Conducted endangered species surveys and vegetation mapping of the Rio Grande River
- Constructed and monitored groundwater wells

Selected Publications *(full list available upon request)*

- Romano, W.B., Skalski, J.R., Townsend, R.L., Kinzie, K.W., Coppinger, K.D. and Miller, M.F. 2019. Evaluation of an acoustic deterrent to reduce bat mortalities at an Illinois wind farm. *Wildl. Soc. Bull.*, 43: 608-618. doi:10.1002/wsb.1025.
- W. B. Romano, J. R. Skalski, C. Geist, R. Townsend, **C. Meekins**, S. Johnson, K. Chapman, T. Austin, K. Kinzie, K. Coppinger. 2017. Task 6 -- Turbine Field Study During BP 2. Final Report to the US Department of Energy. Issued under Grant No. DE-EE0007035.
- **Shoener Environmental, Inc.** and Skalski, J.R., 2016. 2015 Bat Deterrent Efficacy Report: Research Results of a Carcass Study Performed at the California Ridge Wind Energy Center. Technical Report Submitted to: California Ridge Wind Energy, LLC. Chicago, IL, USA.



Jessica Noe

Wildlife Biologist

Ms. Noe has eleven years of experience in wildlife biology, environmental sciences, and completing field work. She is primarily charged with completing bat acoustic studies and wildlife assessments. In doing so she has become proficient at identifying calls made by bat species native to the northeastern and central United States. She is also involved in pre- and post-construction surveys, GIS mapping, phase I site assessments, raptor nest studies, wetland delineations, and data management.

Core Experience

- 11 Years in Research/Conservation
- Renewable Energy/Wildlife Issues
 - Avian and Bat Ecology
 - Bat Acoustic Research
 - Project Management
 - GIS Mapping
 - Phase I Assessments
 - Technical Writing and Data Management

Education

B.S., Juniata College, 2012
Wildlife Conservation

Certifications/Affiliations

The Wildlife Society
Pennsylvania Chapter

University of California, Davis
Fundamentals of GIS,
Geospatial and Environmental Analysis,
GIS Data Formats, Design and Quality

ASTM International
Phase I Environmental Site Assessments
for Commercial Real Estate

Pennsylvania Game Commission
PA Threatened and Endangered Species

Contact

109 E. Main Street
Somerset, PA 15501
Cell: (717) 752-5594
jnoe@shoener.com

Professional Experience

Shoener Environmental, Inc. 2012 – Present
Wildlife Biologist

- Lead biologist of bat acoustic surveys from 2014-present
- Conducts bat and bird mortality studies at wind energy facilities in Pennsylvania and West Virginia
- Manages and places searcher efficiency trials during post-construction surveys
- Produces maps with ArcMap for field work and reports
- Assists in completing raptor nest surveys, wildlife habitat assessments, site characterizations, phase I site assessments, and wetland delineations
- Performs bat roost assessments and emergence studies
- Manages/analyzes data and contributes to annual reports

Blair County Wildlife Rehabilitation Center 2011-2014
Wildlife Care Volunteer and Lead Dietitian

- Provided proper care for wildlife and domesticated animals
- Assisted the veterinarian with examinations
- Educated and engaged with the public at events or over the phone

Juniata College 2008-2012
Student

- Coordinated Juniata's first Permanent Forest Plot Project following EREN protocol
- Conducted studies on fish populations within areas affected by acid mine drainage
- Participated in mist-netting surveys for passerines
- Collected data on *Sceloporus cowlesi* and other native lizard species of the southwestern United States

Selected Publications *(full list available upon request)*

- **Shoener Environmental, Inc.** and Skalski, J.R., 2016. 2015 Bat Deterrent Efficacy Report: Research Results of a Carcass Study Performed at the California Ridge Wind Energy Center. Technical Report Submitted to: California Ridge Wind Energy, LLC. Chicago, IL, USA.

RYAN P. POHLE

PROFILE

Mr. Pohle has professional experience conducting Geographic Information Systems (GIS) analysis and environmental consulting services for renewable energy companies since 2011. His professional experience includes Global Positioning Systems (GPS) navigation and data collection, land development planning, wetland/stream delineations, watershed analyses, groundwater sampling, wildlife and plant surveys, and habitat assessments. As part of Shoener's Site Assessment group, he has provided siting and data analysis for potential and existing renewable energy projects, and has experience conducting Phase I environmental site assessments in accordance with ASTM requirements. Mr. Pohle's education includes a B.A. in Geography with a concentration in Environmental Planning from Bloomsburg University of Pennsylvania, and he holds a professional certificate in GIS from the Penn State World Campus.

PROFESSIONAL EXPERIENCE

Shoener Environmental, Inc.

Dickson City, PA

GIS Manager/Environmental Science Associate

2018-present

- Manages companywide GIS division.
- Creates and manages complex GIS datasets and analyzes data to prepare maps and reports for site evaluation for developmental potential and permitting support efforts and land development planning and analysis.
- Performs visual analysis for renewable energy projects.
- Reviews and organizes real estate documents pertaining to land leases.
- Completes ASTM Phase I Environmental Assessments.
- Assists in conducting wetland delineations in accordance with US Army Corps of Engineers requirements.
- Assists and teaches co-workers ESRI software and GIS capabilities.

Shoener Environmental, Inc.

Dickson City, PA

GIS Analyst/Environmental Science Associate

2011-2018

- Creates and manages complex GIS datasets and analyzes data to prepare maps and reports for site evaluation for developmental potential and permitting support efforts and land development planning and analysis.
- Reviews and organizes real estate documents pertaining to land leases.
- Completes ASTM Phase I Environmental Assessments.
- Assists in conducting wetland delineations in accordance with US Army Corps of Engineers requirements.
- Manages Interns, Assists and teaches co-workers ESRI software and GIS capabilities.

Shoener Environmental, Inc.

Dickson City, PA

GIS Analyst/Environmental Science Intern

May 2011-August 2011

- Created and analyzed GIS data layers, for development and support.
- Assisted in conducting wetland delineations in accordance with US Army Corps of Engineers requirements.
- Assisted with Phase I Environmental Assessments

Wayne County Planning Department*Planning Department Intern*

Honesdale, PA

June 2010-August 2010

- Assisted the Planning Department in subdivision review, report analysis and GIS mapping.

PROFESSIONAL TRAINING

- ASTM Phase I Environmental Site Assessments for Commercial Real Estate –2011 & 2013
- WindPro Training. EAPC Wind Energy- September 2012

EDUCATION

Penn State University World Campus

Post Bachelors Professional Certificate in GIS

2013-2014

Bloomsburg University Of Pennsylvania

B.A. in Geography, concentration in Environmental Planning

2007-2011



Ed Shoener - President

PROFILE

Environmental management executive and consultant with over 30 years experience in the environmental protection profession. Managed a wide variety of environmental programs and projects with demonstrated results in project development, expanded services and program growth. Held management positions in Federal, State, Non-profit and Private sectors and has domestic and foreign experience. Extensive technical experience in environmental permitting and compliance, energy project development and management, wetland and wildlife assessment and management projects.

ACCOMPLISHMENTS

Environmental Consultant since 1994

Founded Shoener Environmental, a consulting firm that is focused on helping clients obtain the environmental permits and approvals that are needed to develop and operate their projects. Shoener Environmental has offices across the US. Our firm has deep and substantial experience in helping clients resolve complex regulatory issues, obtain environmental permits and manage environmental programs. We have expertise in the development of energy projects, with a focus on renewable energy projects, and have worked with major energy companies throughout the country.

Director of the Pennsylvania Department of Environmental Resources (DER) Northeast Regional Office in Wilkes-Barre, PA (1987–1994)

Directed Pennsylvania's environmental management programs in the northeastern section of the State. Supervised over 230 employees located in multiple offices. Developed and implemented programs to protect and enhance watersheds and water bodies, groundwater protection programs, wetlands protection and restoration programs, drinking water supply protection, air pollution control and waste management/cleanup programs.

Environmental Scientist, US Environmental Protection Agency in Philadelphia, PA and Ann Arbor MI (1978-1987)

Administered Superfund Hazardous Waste Cleanup contracts with values in excess of \$30 million. Managed all phases of the projects from initial site assessment to cleanup to site closure. Coordinated EPA responses with a wide variety of other federal agencies, such as the Departments of Interior, Justice and Defense. Also managed Federal Air Pollution Control projects and Automobile Emission Inspection Projects.

Adjunct Professor

Created, developed and taught courses on environmental management and science at Marywood University, Scranton, PA and Keystone College, LaPlume, PA.

EDUCATION

- MEPC, Master of Environmental Pollution Control, Penn State University, 1978
- BS, Environmental Resource Management, Penn State University, 1976



EXPERIENCE

ENVIRONMENTAL CONSULTING - 1994 to present

President, Shoener Environmental Inc.

Provides environmental consulting services in the United States and internationally. Responsible for scoping, design, implementation and management of projects.

- Extensive experience in helping clients resolve regulatory issues, obtain environmental permits and implement environmental management programs. Assists clients in project development by managing wetland delineations, natural resource and wildlife assessments and Phase I environmental assessments.
- Assist clients develop energy projects. Directed the permitting of over 1,000 Megawatts of renewable energy projects throughout the US. Assisted in project development, community relation activities, landowner negotiations, construction management and post-construction wildlife and environmental monitoring.
- In the U.S., assisted clients in developing projects and addressing the environmental impacts and compliance issues associated with their projects. U.S. clients include industrial facilities and commercial developers, U.S. EPA, U.S. AID and local governments.
- Conducted a comprehensive Management Assessment of the U.S. AID Ecolinks program. The EcoLinks program promotes market-based solutions to environmental problems in Central and Eastern Europe. Conducted on-site evaluations in Romania, Hungary, Ukraine and Washington, DC. Worked under subcontract with PriceWaterhouseCooper.
- Program manager for a U.S. AID funded environmental management program for industries in Russia. The International Research and Exchanges Board (IREX) manages the project. The project facilitated sustainable development in Russia by promoting the implementation of environmental management systems in target regions and industries.
- US EPA funded Superfund Technical Advisor to local community environmental groups. Responsible for helping communities understand the environmental risks posed by the Superfund hazardous waste sites and to help the community groups communicate their concerns to the US EPA.
- Developed and delivered training programs on environmental management for US, Russian, Ukrainian, Belarussian, and Kazakhstan officials, industrial managers, and academics.
- Member of the U. S. Technical Advisory Committee developing the ISO 14000 Environmental Management System Standards from 1995 to 2002. Obtained the ISO 14000 Auditor Educational Certificate for successfully completing the American National Standards Institute-Registrar Accreditation Board accredited ISO 14000/Environmental Management Systems Auditor Course.

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES (DER)

Director, Pennsylvania DER Northeast Regional Office, Wilkes-Barre, PA (1987-1994)

As Regional Director, was the senior DER official responsible for managing Pennsylvania's environmental protection programs in the northeastern section of the State. The office covered 11 counties with a population of over 1.3 million people.

- Supervised over 230 employees, the majority being professionals in various technical disciplines, such as engineering, geology, chemistry, biology. Primary office activities included field inspections, compliance assistance and enforcement, permitting, and grant/ contract management.

- Supervised and implemented major programs in the following areas: Air Pollution Control, Water Pollution Control, Wetlands Protection, Drinking Water Protection, Solid Waste/Landfill Management and Superfund/Hazardous site cleanup programs.
- Implemented a number of new environmental initiatives such as, municipal waste planning and recycling programs, a State Superfund program, upgraded sewage management programs, expanded clean air programs and underground tank management programs.
- A wide range of management techniques were used to manage this period of growth and change – from developing comprehensive priority setting procedures, implementing new reporting systems and using a variety of methods to involve and motivate employees. Most importantly, a culture was developed that encouraged and supported innovation, individual responsibility, technical competence and service to the public.
- As the major regional spokesman for the Department, obtained extensive experience in working with the public and media in a wide variety of circumstances - ranging from leading public briefings during environmental emergencies to planning and implementing public relations activities for new DER programs or initiatives. Chaired dozens of public meetings to discuss and obtain public comment on controversial issues and project proposals.

U.S. ENVIRONMENTAL PROTECTION AGENCY 1978 to 1987

➤ *Superfund Response Program, EPA Region III, Philadelphia, PA (1982-1987)*

Held various positions of increasing scope and responsibility in EPA's Regional Superfund Program.

- ◆ Managed EPA's Superfund financed remedial cleanup program in the States of Maryland, Virginia, West Virginia and Delaware.
- ◆ Worked individually or as the senior member of a team in the investigation and enforcement of incidents involving the illegal disposal of toxic or hazardous wastes. Coordinated comprehensive technical investigations, organized and provided leadership at public meetings held in the communities affected by the waste sites, negotiated with responsible parties for the cleanup of the sites and assisted litigation teams in court actions.
- ◆ As Senior Superfund Project Manager, was responsible for overseeing the technical aspects of all remedial Superfund projects in the mid-Atlantic Region. Managed Superfund remedial planning contracts with values in excess of \$30 million.
- ◆ Served on national work groups developing EPA Superfund policies in areas such as Public Health Assessment Methods, Data Quality Objectives and Sampling programs.

➤ *Air Pollution Control Project Officer, EPA Region III, Philadelphia, PA (1980-1982)*

Served as Regional Air Programs liaison for the State of Pennsylvania and as Regional Air Toxics Control Program coordinator. Served a senior staff specialist as advisor to Metropolitan Planning Organizations on transportation-air quality planning. Assessed air pollution problems, identified sources, and developed and reviewed implementation plans and permits.

➤ *Environmental Scientist, EPA Vehicle Emissions Inspection Staff, Ann Arbor MI (1978 - 1980)*

Responsible for developing technical information to support EPA's vehicle inspection program. Conducted technical research on methods to measure automobile air pollution and to calibrate the accuracy of the measurements. Testified extensively before state legislatures where new laws were needed.



TEACHING EXPERIENCE

➤ Adjunct Professor (1994 to 2006)

Marywood University, Scranton, PA and Keystone College, LaPlume, PA

Developed and taught undergraduate courses on Environmental Science and Environmental Management. The goal of the courses is to provide students with a basic understanding the principles of environmental science and of the issues facing environmental managers. Focus is on understanding U.S. Environmental programs and policies. International and global issues are introduced.

NON-PROFIT ENVIRONMENTAL GROUPS

➤ *ECOLOGIA, Treasurer and Board Member, Middlebury, VT (1989-date)*

ECOLOGIA provides information, training and technical support to environmental groups in the U.S., Russia, the Baltic States, eastern and central Europe and central America. Funding is received from major foundations (i.e. Mott, Alton Jones, Rockefeller Brothers) and U.S. government agencies.

➤ *Lackawanna River Corridor Association, Secretary and Board Member, Scranton, PA (1994 to 2001)*

The Association is a “grass roots” citizens group devoted to leading the local community in efforts to clean and revitalize the Lackawanna River, the main river in Lackawanna County.

AWARDS

➤ Appreciation Award, Contributions to the Council’s Inspector General Air Audit Workgroup, *Pennsylvania Citizen’s Advisory Council*, 1997.

➤ Environmental Partnership Award, Forging Partnerships for Environment Protection in Northeastern Pennsylvania, *Pennsylvania Environmental Council*, 1994.

➤ Citation for Service, Demonstrated Leadership, Competence, Professionalism and Integrity, *The House of Representatives of the Commonwealth of Pennsylvania*, 1994.

➤ Appreciation Award, Defender of the Environmental and Its Human Resources, *Citizen Alert Regarding the Environment*, 1994.

➤ Proclamation - Ed Shoener Day, Tireless Advocate for a Clean and Better Environment, *City of Scranton, Pennsylvania*, October 7, 1994.

➤ Commendable Service Medal, Outstanding Contributions During the Lehigh Electric Superfund Project, *U.S. Environmental Protection Agency*, 1985.

➤ Special Achievement Award for High Quality Performance, Superfund Project Management, *U.S. Environmental Protection Agency*, 1984.

➤ Special Achievement Group Award, Superfund Site Cleanup Management, Lehigh Electric Superfund Site Cleanup, *U.S. Environmental Protection Agency*, 1983.

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2
Tab 12

**Kentucky State Board on Electric Generation and Transmission Siting
Green River Solar, LLC – Case No. 2020-00387
Application – Exhibit 12
Volume 2, Tab 12**

Filing Requirement

The board may grant a deviation from the requirements of subsection (2) of this section on a finding that the proposed facility is designed to and, as located, would meet the goals of ... KRS 224.10-280 (KRS 278.704(4)); and

The cumulative environmental assessment shall contain a description, with appropriate analytical support, of:

- (a) For air pollutants:*
 - 1. Types and quantities of air pollutants that will be emitted from the facility; and*
 - 2. A description of the methods to be used to control those emissions;*
- (b) For water pollutants:*
 - 1. Types and quantities of water pollutants that will be discharged from the facility into the waters of the Commonwealth; and*
 - 2. A description of the methods to be used to control those discharges;*
- c) For wastes:*
 - 1. Types and quantities of wastes that will be generated by the facility; and*
 - 2. A description of the methods to be used to manage and dispose of such wastes; and*
- (d) For water withdrawal:*
 - 1. Identification of the source and volume of anticipated water withdrawal needed to support facility construction and operations; and*
 - 2. A description of the methods to be used for managing water usage and withdrawal. (KRS 224.10-280(3))*

Respondent: Brian Bartels

Pursuant to KRS 278.704(4) and KRS 224.10-280, the attached Cumulative Environmental Assessment was prepared by Environmental Consulting and Technology, Inc., under the direction and supervision of Brian Bartels, on behalf of Green River. It was tendered to the Kentucky Energy and Environment Cabinet on June 29, 2021.

Attachment A: Cumulative Environmental Assessment (13 Pages)

Green River Solar, LLC

Case No. 2020-00387

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Tab 12

Attachment A

Cumulative Environmental
Assessment
(13 Pages)



> Cumulative Environmental Assessment for Proposed Green River Solar Project

June 2021
ECT No. 200594

Green River Solar, LLC
Juno Beach, Florida

ECT

3399 Veterans Drive
Traverse City, Michigan 49684
www.ectinc.com

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Figure 1. Site Location Map1-2

List of Acronyms and Abbreviations

BMPs	Best Management Practices
CEA	Cumulative environmental assessment
CO ₂	Carbon dioxide
CO	Carbon monoxide
CWAH	Cold-Water Aquatic Habitat
DOW	Division of Water
ECT	Environmental Consulting & Technology, Inc.
EPA	U.S. Environmental Protection Agency
E&S	Erosion and sediment
Green River	Green River Solar, LLC
HMPB	Hazardous Materials Business Plan
HUC	Hydrologic Unit Code
KAR	Kentucky Administrative Code
KPDES	Kentucky Pollution Discharge Elimination System
kV	kilovolts
MSDS	Material Safety Data Sheet
MW AC	Megawatt alternating current
NAAQS	National Ambient Air Quality Standards
NOx	Nitrous oxides
PM	Particulate Matter
PPE	Personal protective equipment
PV	Photovoltaic
SCADA	Solar meteorological station, supervisory control, and data acquisition
SES	Solar Energy System
SO ₂	Sulfur Dioxide
SPCC	Spill Prevention Control and Countermeasure Plan
SWPPP	Stormwater Pollution Prevention Plan
WOTUS	Waters of the United States

1.0 Introduction

1.1 **Project Description**

Green River Solar, LLC (Green River) contracted Environmental Consulting & Technology, Inc. (ECT) to prepare a cumulative environmental assessment (CEA) for the Green River Solar Project (Project). Green River proposes to develop a Solar Energy System (SES) in Breckinridge County and Meade County, Kentucky. The Project will be located on approximately 1,750 acres of land generally located four miles southwest of Brandenburg, 15 miles west of Fort Knox, immediately north of Irvington, and east of Guston and Ekron. The Project area spans the county line of Meade and Breckinridge Counties (Figure 1).

The Project is a 200-megawatt alternating current (MW AC) SES. The 200 MW AC SES would connect to an existing 161 kilovolts (kV) transmission system at the point of interconnection, located at the intersection of Highway 79 and Guston Road (Figure 1).

The Project will include photovoltaic (PV) solar panels mounted on fixed-tilt structures, along with the associated infrastructure listed below:

- central electric inverters and transformers;
- underground electrical collection systems (distribution equipment);
- electrical collector substation;
- point of interconnection switchyard (including power control equipment);
- interconnection facilities;
- solar meteorological station;
- supervisory control and data acquisition (SCADA) hardware;
- control house for protective relay panels, site controllers, and associated facilities;
- private gravel access roads with gated ingress/egress points;
- security fencing; and
- temporary construction laydown yard.

Collectively, the PV solar panels and infrastructure components listed above comprise the “Project Facilities”

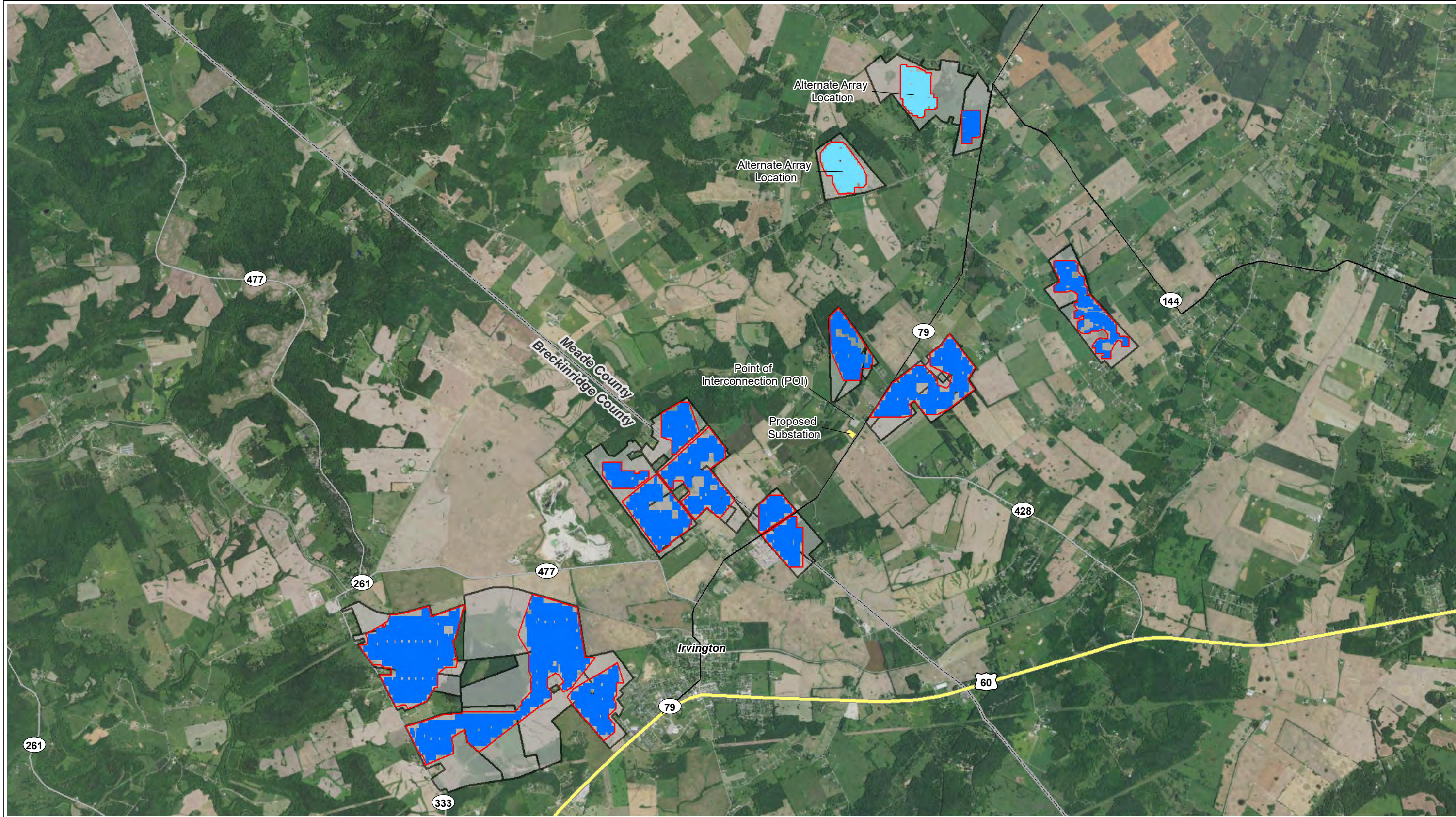
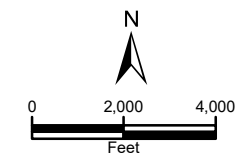


Figure 1. Site Location
 Green River Solar Project
 Breckinridge and Meade Counties, Kentucky

- Legend**
- Site Fence
 - Array
 - Alternate Array Location
 - Proposed Substation
 - Lease Parcel



1.2 CEA Requirements

KRS 224.10-280 states that no person shall commence to construct a facility to be used for the generation of electricity unless that person submits a CEA to the Kentucky Energy and Environment Cabinet. The CEA must be submitted with the project permit application. This CEA contains descriptions of proposed Project impacts and mitigation strategies for the following categories as outlined in KRS 224.10-280:

- 1) Air Pollutants
- 2) Water Pollutants
- 3) Wastes
- 4) Water Withdrawal

Sections 2.0 through 5.0 specifically address each one of the above categories (air pollutants, water pollutants, wastes, water withdrawal) as required by KRS 224.10-280.

2.0 Air Pollutants

National Ambient Air Quality Standards (NAAQS) for several “criteria” air pollutants have been developed by the United States Environmental Protection Agency (EPA), in accordance with the Clean Air Act. These NAAQS are designed to protect public health and welfare by regulating pollutants deemed harmful to public health and the environment. The six principal pollutants, referred to as “criteria” air pollutants, are ozone, particulate matter (PM), carbon monoxide (CO), nitrous oxides (NO_x), sulfur dioxide (SO₂), and lead.

With input from states and tribes, the EPA designates specific geographic areas as attainment, nonattainment, or unclassifiable for specific NAAQS. Geographic areas that meet or are cleaner than a specific NAAQS are designated “unclassifiable/attainment”, and areas that do not meet a specific NAAQS are designated as nonattainment areas. If the EPA is not able to determine an area’s status, it is designated as “unclassifiable.” New emissions in or near nonattainment areas are subject to more stringent air permitting requirements.

Breckenridge and Meade Counties and all surrounding counties (Harden, Grayson, Ohio, and Hancock Counties in Kentucky, and Perry, Crawford, and Harrison Counties in Indiana) are in attainment for all criteria pollutants (EPA 2021). However, nearby Bullitt, Jefferson, and Oldham Counties in Kentucky are nonattainment for the 8-hour Ozone Standard (2015). Breckenridge and Meade Counties are also protected by Air Quality Regulations found in Title 401, Chapters 50–68 of the Kentucky Administrative Regulations (KAR).

The construction and operation of the Project will produce transient air pollutant emissions. These emissions are expected to be minor and would result primarily from the operation of personnel vehicles, delivery trucks, construction equipment, and machinery. Construction equipment and machinery may include pile drivers, augers, tractors, forklifts, flatbed semi-trucks, concrete trucks, backhoes, and bulldozers. The operation of these vehicles and equipment will produce PM, NO₂, carbon dioxide (CO₂), SO₂, and volatile organic compounds. While emissions are expected to be minor, calculating the precise quantity of emissions is difficult and would need to consider equipment age, horsepower, operating efficiency, and operation durations.

Project construction activities will occur primarily during daylight hours; however, potential delays may necessitate work to occur after dark. Project construction will occur over an approximately 18-month period and include a daily workforce of up to 150-200 workers onsite at any time.

The majority of the Project area (approximately 78%) consists of cultivated crops and pasture/hay, with a small portion of Project area (approximately 17%) being forested. As a result, vegetation removal and tree clearing are expected to be minimal. Debris resulting from vegetation removal and tree clearing will be ground, chipped, composted onsite or managed at an offsite facility and will not be burned onsite.

In addition to criteria air pollutant emissions, Project construction will generate temporary fugitive air pollutant emissions (e.g., small particles suspended in the air or dust). Personnel vehicles and construction equipment traveling over unpaved roads and the construction site provide sources of fugitive dust. The Project will implement best management practices (BMPs), such as covering loads

and applying water for dust suppression, to minimize potential air quality impacts. The majority of dust is expected to be deposited in the immediate vicinity of generation. While natural factors such as precipitation, soil moisture, and wind along with the intensity of construction activities have the potential to influence dispersal across the Project site and offsite, the use of BMPs is expected to reduce air quality impacts greatly. As a result, impacts to offsite air quality will be minor and transient and ambient air quality standards will not be exceeded.

Air emissions generated during operation of the Project will be limited to personnel vehicles and maintenance equipment. Operation of the solar facility itself will not produce emissions of criteria pollutants, volatile organic compounds, or Hazardous Air Pollutants. Maintenance equipment is expected to be limited to mowers and other equipment necessary to control vegetation growth. The Project anticipates approximately three full-time staff will be onsite for the life of the Project. Project maintenance activities will include vegetation management (mowing and trimming), equipment inspections, and general maintenance.

Air pollutant emissions related to the Project are expected to be negligible. By providing a zero-emission electricity source as an alternative to fossil fuel-generated and other non-renewable sources of energy, the Project will provide an overall benefit to local and regional air quality. As a result, the construction and operation of the Project do not require air quality permits.

3.0 Water Pollutants

3.1 Stormwater

The Project is located in the Blue-Sinking watershed (Hydrologic Unit Code [HUC] 05140104). The Project's land cover consists primarily of active agricultural fields, with areas of mature woods, upland shrub thicket, and old fields scattered throughout. ECT reviewed data available from the Kentucky Division of Water (KDOW) and determined that portions of Sinking Creek, located in the southeastern portion of the Project Area, is designated as Cold-Water Aquatic Habitat (CWAH).

Green River expects the proposed Project to disturb approximately 1,750 acres of land. Project Facilities will be carefully sited to disturb the least amount of land possible while safely and efficiently constructing the Project. Streams, wetlands, floodplains, and drainages will be avoided to the greatest extent practicable. Impacts to Waters of the United States (WOTUS) and county-regulated drains/floodplains will be permitted as applicable.

Project components will include the installation of PV solar panels mounted on fixed-tilt structures. Associated infrastructure will include central electric inverters and transformers, underground electrical collection systems (distribution equipment), electrical collector substation, point of interconnection switchyard (including power control equipment), interconnecton facilities, a solar meteorological station, and SCADA hardware. A control house for protective relay panels and site controllers will also be constructed. Permanent private gravel access roads with gated ingress/egress points and security fencing will be constructed to access and maintain the facilities. During construction, existing access roads will be utilized where available. Temporary laydown yards will be utilized during construction for mobile office trailers, equipment staging, vehicle parking, and material storage. Land disturbance will take place during grading for general site preparation and during the construction of laydown yards, foundations, equipment pads, and access roads.

Green River intends to comply with the Kentucky Pollution Discharge Elimination System (KPDES) Stormwater Construction General Permit (KYR10). A Stormwater Pollution Prevention Plan (SWPPP) will be prepared and implemented to comply with KDOW requirements. BMPs will be utilized to prevent and reduce construction stormwater from directly or indirectly entering streams or wetlands. Green River will install and maintain erosion and sediment (E&S) control devices, such as silt fence or silt sock, sediment basins, sediment traps, and/or buffer zones around sensitive resources.

Post-construction, disturbed areas will be seeded with a native and/or noninvasive perennial grass and herbaceous seed mix. E&S control devices will be inspected and maintained until vegetation in the disturbed areas has returned to the preconstruction conditions or the Project Site is stable. The use of BMPs would be implemented for any future maintenance activities that could result in stormwater runoff. Finally, converting the land use from agricultural to solar may provide a net improvement to surface water quality through reductions in herbicide, pesticide, and fertilizer use.

3.2 Groundwater

Groundwater exists beneath the ground surface within the pore spaces of soils and rock. Subsurface areas with sufficient permeability to conduct groundwater and produce significant quantities of water through wells and natural springs are referred to as aquifers. Aquifers are recharged by precipitation that permeates the ground. In addition to extraction through man-made wells and natural springs, groundwater can also discharge to waterbodies such as streams and lakes.

The Project is not expected to produce direct adverse impacts to groundwater. Rainwater will naturally drain off the panels to the adjacent vegetated ground surface. Because this water will not be collected, impacts to water infiltration and surface water runoff are expected to be minor. Additionally, converting the land use from agricultural to solar may provide a net improvement to groundwater quality through reductions in herbicide, pesticide, and fertilizer use.

3.3 Hazardous Materials

Project construction will require the use and storage of various hazardous materials on site. To prevent contaminating surface or groundwater features, Green River will utilize BMPs and implement a Spill Prevention Control and Countermeasure plan (SPCC) to avoid and address any potential leaks or spills of hazardous materials. Adequate supplies of spill cleanup materials will be stored onsite and facility personnel will be trained in the proper procedures to be followed in the event of a leak or spill. A Hazardous Materials Business Plan (HMBP) will also be in place and followed to ensure hazardous materials are stored and disposed of safely and properly and do not pose a risk to facility personnel, the environment, or the public. Material Safety Data Sheets (MSDS) and personal protective equipment (PPE) will be made available for facility personnel.

The primary hazardous materials onsite will be petroleum products (gasoline, diesel, oils, hydraulic fluid, etc.) related to construction vehicles and equipment. Vehicle and equipment refueling will take place offsite or within designated refueling zones. Refueling zones will be in upland areas away from streams, wetlands, or other aquatic resources. Spill kits will be carried on all refueling vehicles and at locations throughout the Project site. Vehicles and equipment will be appropriately maintained to prevent leaks or spills of hazardous materials.

Other hazardous materials such as herbicides, pesticides, solvents, paints, welding gases, and janitorial supplies will also be used and stored on site. All materials will be labeled and stored in appropriate containers. Secondary containment systems will be utilized where necessary to prevent leaks or spills if the primary container fails. Hazardous waste generated by Project construction will be removed from the site and disposed of in accordance with local, state, and federal regulations specific to each waste type.

To minimize the potential for water impacts, only USEPA-registered and approved herbicides will be used in accordance with label directions designed in part to restrict applications near receiving waters and to prevent unacceptable aquatic impacts. All herbicides will be applied by Kentucky licensed and certified commercial pesticide applicators.

4.0 Waste

Hazardous materials and waste will be produced from the construction activities done at the Project site. All waste will be removed from the site and disposed of in accordance with local, state, and federal regulations. Roll-off dumpsters or similar containers will be acquired from waste disposal contractor(s) and placed within laydown yards/staging areas for disposal of general trash, debris, and non-hazardous materials (e.g., pallets, building materials, plastic packaging, cardboard, etc.). The waste disposal contractor(s) will be responsible for emptying the containers and proper disposal of the waste offsite.

Hazardous waste materials generated by construction may include spent petroleum products, lubricants, paints, aerosol cans, batteries, electronics, used spill cleanup materials, wastewater, and sewage. The HMBP will be followed, and hazardous waste will be labeled and stored in appropriate containers. Secondary containment systems will be utilized where necessary to prevent leaks or spills if the primary container fails. Hazardous waste will be removed from the site and disposed of in accordance with local, state, and federal regulations specific to each waste type.

Portable restrooms (chemical toilets) will be rented from a licensed contractor(s) and placed in laydown yards and other areas as deemed necessary. The portable restrooms will be onsite for the duration of the Project construction. The contractor(s) will be responsible for removing waste on a schedule appropriate to maintain sanitary conditions and will be responsible for disposing of the waste in accordance with local, state, and federal regulations. Restrooms will also be located inside of temporary construction trailers on site. Wastewater and sewage from these facilities will be collected in septic system tanks that will be pumped and maintained and emptied by a licensed contractor. Waste materials will be disposed of offsite in accordance with local, state, and federal regulations.

At the completion of construction any remaining trash, debris, or excess construction materials will be removed from the Project site. E&S control measures such as silt sock and silt fence may remain until the Project site is stable at which point the materials will be removed and disposed of offsite. Post-construction waste generation will be minimal and will generally be associated with maintenance (e.g., electrical materials, worn/broken equipment). All waste materials will be removed from the site at the completion of the maintenance activity and disposed of in accordance with applicable regulations.

No adverse effects are anticipated from wastewater treatment and disposal. Due to the size of the facility, no additional bathroom facilities are anticipated. Based on a review of Project waste generation activities, no adverse effects from waste are anticipated.

5.0 Water Withdrawal

Construction of the Project will require the use of water for various activities. Water will primarily be used for dust control and compaction when grading and during the construction of access roads, foundations, equipment pads, and other land-disturbing activities. Depending on site conditions, the use of water for dust control along access roads may be on-going during construction. Some small amounts of water may also be used for equipment washing. Adherence to the SWPP and use of BMPs will be implemented to prevent sedimentation from directly or indirectly entering streams or wetlands.

Potable water and water for handwashing will be made available for facility personnel.

There are onsite water wells on some of the Project parcels, and these will be the preferred source for water. If existing wells are not present in some areas of the Project, the Project may require water to be brought in from an offsite source. The potential for constructing a new on-site well for the Project is still being evaluated and will determine the need for withdrawal activities associated with the Project. If it is determined that water withdrawal is necessary, the withdrawal will be permitted in accordance with 401 KAR 4:010, as applicable.

Post-construction water use will be minimal to none. Some water may be used for vegetation management. Precipitation in the region is adequate to remove dust and other debris from the solar panels, and manual washing is not anticipated.

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**Kentucky State Board on Electric Generation and Transmission Siting
Green River Solar, LLC – Case No. 2020-00387
Application – Exhibit 13
Volume 2, Tab 13**

Filing Requirement

The board may grant a deviation from the requirements of subsection (2) of this section on a finding that the proposed facility is designed to and, as located, would meet the goals of ... KRS 278.212 (KRS 278.704(4)); and

- 1) No utility shall begin the construction or installation of any property, equipment, or facility to establish an electrical interconnection with a merchant electric generating facility in excess of ten megawatts (10MW) until the plans and specifications for the electrical interconnection have been filed with the commission.*
- (2) Notwithstanding any other provision of law, any costs or expenses associated with upgrading the existing electricity transmission grid, as a result of the additional load caused by a merchant electric generating facility, shall be borne solely by the person constructing the merchant electric generating facility and shall in no way be borne by the retail electric customers of the Commonwealth. (KRS 278.212)*

Respondent: Lina Jensen

The Project will connect to the existing 161 kV Meade Substation owned by Big Rivers at a location approximately at Guston Road and Highway 79 in Meade County. As evidenced by Exhibit 8 hereto, Green River is working closely with Big Rivers and MISO to plan and design the appropriate interconnection. Green River further states that, if such work is necessary, it expects Big Rivers to comply with its statutory obligation under KRS 278.212(1) to file the plans and specifications for the electrical interconnection between it and the Project with the Commission prior to constructing or installing any property, equipment or facility necessary to establish an electrical interconnection with Green River.

Green River further states that any costs or expenses associated with upgrading the existing electricity transmission grid, as a result of the additional load caused by a merchant electric

generating facility, will be borne by Green River and shall in no way be borne by retail electric customer of the Commonwealth.

Green River Solar, LLC

Case No. 2020-00387

Application - Volume 2
Tab 14

**Kentucky State Board on Electric Generation and Transmission Siting
Green River Solar, LLC – Case No. 2020-00387
Application – Exhibit 14
Volume 2, Tab 14**

Filing Requirement

The board may grant a deviation from the requirements of subsection (2) of this section on a finding that the proposed facility is designed to and, as located, would meet the goals of ... KRS 278.214 (KRS 278.704(4)); and

When a utility or generation and transmission cooperative engaged in the transmission of electricity experiences on its transmission facilities an emergency or other event that necessitates a curtailment or interruption of service, the utility or generation and transmission cooperative shall not curtail or interrupt retail electric service within its certified territory, or curtail or interrupt wholesale electric energy furnished to a member distribution cooperative for retail electric service within the cooperative's certified territory, except for customers who have agreed to receive interruptible [sic] service, until after service has been interrupted to all other customers whose interruption may relieve the emergency or other event. (KRS 278.214)

Respondent: Lina Jensen

Green River Solar is not a utility or a generation and transmission cooperative. The Project is solely a merchant generation facility injecting electricity into the transmission system and is not engaged in the transmission of electricity. The Transmission Provider for this project is MISO. The Transmission Provider has functional control of the operations of the Transmission System and is responsible for providing Transmission Service and Interconnection Service on the transmission facilities under its control. The Transmission Owner for this project is Big Rivers. The Transmission Owner owns and operates the Transmission System, whose operations are subject to the functional control of Transmission Provider.

Green River further states that it expects Big Rivers and MISO to comply with the statutory obligations under KRS 278.214 as stated above. See the below excerpt from the Generator

Interconnection Agreement between MISO, Big Rivers, and Green River Solar. Green River Solar Project is defined as the “Interconnection Customer” in this agreement.

9.7.2 Interruption of Service. If required by Good Utility Practice to do so, Transmission Provider may require Interconnection Customer to interrupt or reduce deliveries of electricity if such delivery of electricity could adversely affect Transmission Provider’s ability to perform such activities as are necessary to safely and reliably operate and maintain the Transmission System. The following provisions shall apply to any interruption or reduction permitted under this Article 9.7.2:

9.7.2.1 The interruption or reduction shall continue only for so long as reasonably necessary under Good Utility Practice;

9.7.2.2 Any such interruption or reduction shall be made on an equitable, nondiscriminatory basis with respect to all generating facilities directly connected to the Transmission or Distribution System, as applicable;

9.7.2.3 When the interruption or reduction must be made under circumstances which do not allow for advance notice, Transmission Provider shall notify Interconnection Customer by telephone as soon as practicable of the reasons for the curtailment, interruption, or reduction, and, if known, its expected duration. Telephone notification shall be followed by written notification as soon as practicable;

9.7.2.4 Except during the existence of an Emergency Condition, when the interruption or reduction can be scheduled without advance notice, Transmission Provider shall notify Interconnection Customer in advance regarding the timing of such scheduling and further notify Interconnection Customer of the expected duration. Transmission Provider shall coordinate with Interconnection Customer using Good Utility Practice to schedule the interruption or reduction during periods CUI//CEII Original Sheet No. 50 of least impact to Interconnection Customer, Transmission Owner and Transmission Provider;

9.7.2.5 The Parties shall cooperate and coordinate with each other to the extent necessary in order to restore the Generating Facility, Interconnection Facilities, and the Transmission or Distribution System, as applicable to their normal operating state, consistent with system conditions and Good Utility Practice.