

**Decommissioning Plan  
Crawfish River Solar Project  
Jefferson County, Wisconsin**



Prepared for:  
Crawfish River Solar, LLC

Prepared by:  
Stantec Consulting Services Inc.  
209 Commerce Parkway  
Cottage Grove, Wisconsin 53527

Project No: 193707761  
September 2, 2020

**DECOMMISSIONING PLAN  
CRAWFISH RIVER SOLAR PROJECT, JEFFERSON COUNTY, WISCONSIN**

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Prepared by Matthew Clementi, PE

STANTEC CONSULTING SERVICES INC.



Technical Review by JoAnne Blank



Independent Review by Andrew Orthober

**PE CERTIFICATION**

**NAME:** Matthew Clementi  
**TITLE:** Professional Engineer  
**COMPANY:** Stantec Consulting Services Inc.  
**REGISTRATION NO:** #29864  
**STATE:** Wisconsin

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## 1.0 INTRODUCTION

Crawfish River Solar, LLC (CRS) is proposing to construct the Crawfish River Solar Project (Project) in Jefferson County, Wisconsin. The proposed Project is to be located in Jefferson Township, Wisconsin (Figure 1). Major components of the Project include solar modules, racking, tracking system, inverters, transformers and a Project substation. Solar modules being considered include the LONGi Solar Bifacial 440-Watt Module solar arrays. The Project facilities, as proposed, will occupy approximately 439.46 acres of land and will have a maximum nameplate generating capacity of up to 75 megawatts (MW) alternating current (AC).

This Decommissioning Plan (Plan) provides a description of the decommissioning and restoration of the Project. Start-of-construction is planned for 2021, with a projected Commercial Operation Date in 2022. The Project will consist of the installation of the perimeter fencing; solar arrays and associated racking, trackers, foundations, and steel piles; transformers; inverters; substation, access and internal roads; and electrical collection system.

This Plan includes an overview of the primary decommissioning Project activities; dismantling and removal of facilities, and restoration of land. A summary of estimated costs associated with decommissioning the Project is also included in Section 4.0. Summary statistics and estimated costs are provided for a 75-MW Project array design.

### 1.1 SOLAR FARM COMPONENTS

The main components of the Project include:

- Solar panels
- Single Access Tracking system (module mounting structure)
- Driven steel pile foundations
- Inverter stations with transformers
- Electrical cabling and conduits
- Project substation
- Perimeter fencing, site access and internal roads

### 1.2 TRIGGERING EVENTS AND EXPECTED LIFETIME OF PROJECT

Project decommissioning may be triggered by events, such as: abandonment during Project construction, interruption of minimum generation requirements as defined by the Decommissioning Agreement, or when the Project reaches the end of its operational life.

The expected lifetime of a utility-scale solar panel is approximately 30-40 years, with an opportunity for a project lifetime of 40 years or more with equipment replacement and repowering. Depending on market conditions and project viability, the solar arrays may be retrofitted with updated components (e.g., panels, frame, tracking system, etc.) to



extend the life of the project. In the event that the modules are not retrofitted, or at the end of the Project's useful life, the panels and associated components will be decommissioned and removed from the Project site and the Project site will be restored in accordance with this Plan or an updated decommissioning plan agreed to between the Project and applicable regulatory bodies at the time of decommissioning.

Components of the solar facility that have resale value may be sold in the wholesale market. Components with no wholesale value will be salvaged and sold as scrap for recycling or disposed of at an approved offsite licensed solid waste disposal facility (landfill). Decommissioning activities will include removal of the arrays and associated components as listed in Section 1.1 and described in Section 2.

### 1.3 DECOMMISSIONING SEQUENCE

Decommissioning activities will begin within twelve months of the Project ceasing operation and are anticipated to be completed within twelve months. Restoration of the Project may extend beyond twelve months as more time may be required to monitor for revegetation and restoration to ensure its success. The anticipated sequence of decommissioning and removal is described below; however, overlap of activities is expected.

- Reinforce access roads, if needed, and prepare site for component removal;
- Install temporary silt fence and other best management practices (BMPs) to protect sensitive resources and control erosion;
- De-energize solar arrays;
- Remove panels and dismantle racking for recovery / disposal;
- Remove structural foundations a minimum of four feet (48 inches) below the surface;
- Remove inverters and transformers;
- Remove electrical cables and conduits less than two feet (24 inches) below the surface, except where specific contracts with landowners require removal to a greater depth;
- Remove access and internal roads and grade areas, as needed or agreed upon in landowner leases;
- Remove substation, if decommissioned;
- De-compact subsoils (if required), restore and revegetate (if desired by landowner at the time of decommissioning) disturbed land to pre-construction conditions to the extent practicable.

## 2.0 PROJECT COMPONENTS AND DECOMMISSIONING ACTIVITIES

The solar facility components and decommissioning activities necessary to restore the Project area are further described within this section.

### 2.1 OVERVIEW OF SOLAR FACILITY SYSTEM

Crawfish River anticipates utilizing approximately 205,000 LONGi Solar Bifacial 440-Watt Module or other similar solar modules, with a total nameplate generating capacity of up to 75 MW<sub>ac</sub>. Statistics and cost estimates provided in this Plan are based on decommissioning a 75-MW facility. The Crawfish River generating facilities will have a footprint of approximately 439.46 acres of land. The proposed locations of the arrays are shown on Figure 1. The land within the Project footprint is predominantly agricultural land.

Collection cabling will be installed below the surface at a depth of at least three feet (36 inches) to remain in compliance with National Electrical Code (NEC). Foundations, steel piles, and electric cabling and conduit up to two feet (24 inches) below the soil surface will be removed. Components and cabling deeper than 24 inches below the surface will be abandoned in place, except where specific contracts with landowners require removal to a greater depth. Access roads may be left in place if requested and/or agreed to by the landowner. Public roads damaged or modified during the decommissioning and reclamation process will be repaired upon completion of the decommissioning phase.

Estimated quantities of materials to be removed and salvaged or disposed of are included in this section. Most of the materials described have salvage value; although, there are some components that will likely have none at the time of decommissioning. All recyclable materials, salvaged and non-salvage, will be recycled to the furthest extent possible. All other non-recyclable waste materials will be disposed of in accordance with state and federal law in an approved licensed solid waste facility. Solar panels may have value in a resale market, depending on their condition at the end of the Project life. For purposes of this report, salvage values only, not resale, were considered, as this is the more conservative estimate strategy.

Table 1 presents a summary of the primary components of the Project included in this decommissioning plan.

**Table 1 Primary Components of Solar Farm to be Decommissioned**

Component	Quantity	Unit of Measure
Solar Modules (approximate)	205,000	Each
Tracking System (based on 52 to 80 panels per tracker)	2,847	Tracker
Steel Piles (including trackers and inverter stations)	31,677	Each

Component	Quantity	Unit of Measure
Inverters and Transformers	30	Each
Electrical Cables and Conduits (approximate, left in place below 24-inch depth)	23,400	Lineal Foot (estimated)
Perimeter Fencing	46,613	Lineal Foot
Internal Access Roads (approximate)	22,989	Lineal Foot
Operations and Maintenance (Conex) Building	1	Each
Substation	1	Each

## 2.2 SOLAR MODULES

Crawfish River is considering the bifacial monocrystalline silicon (mono-Si) panel (440 watt) from LONGi, or similar model, for the Project. Each module assembly (with frame) has a total weight of approximately 53 pounds (24kg). The modules will be approximately 78 inches by 39 inches in size and are mainly comprised of non-metallic materials such as silicon, glass, composite film, plastic, and epoxies, with an anodized aluminum frame.

At the time of decommissioning, module components in working condition may be refurbished and sold in a secondary market yielding greater revenue than selling as salvage material.

## 2.3 TRACKING SYSTEM AND SUPPORT

The solar modules will be mounted on a single-axis tracking system, such as those manufactured by NEXTracker. Each full-sized tracker is approximately 76 meters (250 feet) in length and will support approximately 72 solar modules. Smaller 48-panel trackers will be employed at the edges of the layout, to efficiently utilize available space. The tracking system is mainly comprised of galvanized and stainless steel; steel piles that support the system are assumed to be comprised of structural steel.

The solar arrays will be deactivated from the surrounding electrical system and made safe for disassembly. Liquid wastes, including oils and hydraulic fluids will be collected and properly disposed of or recycled according to regulations current at the time of decommissioning. Electronic components, and internal electrical wiring will be removed and salvaged. The steel piles will be completely removed from the ground during decommissioning.

The steel foundations, and steel components from the tracking system can be salvaged and sold to provide revenue to offset the decommissioning costs.

## **2.4 INVERTERS AND TRANSFORMERS**

Inverters and transformers generally sit on small concrete footings or steel piles within the array. The inverters and transformers will be deactivated, disassembled, and removed. Depending on condition, the equipment may be sold for refurbishment and re-use. If not re-used, they will be salvaged or disposed of at an approved solid waste management facility.

## **2.5 ELECTRICAL CABLING AND CONDUITS**

The Project's underground electrical collection system will be installed below ground. For direct buried cables without conduit, the minimum cover shall be 36 inches (three feet) from top of cable to finished grade, and 24 inches (two feet) for cables installed in conduit. Cabling that is above a depth of two feet will be removed and salvaged, while cable greater than two feet in depth will be abandoned in place, except where specific contracts with landowners require removal to a greater depth. The system will not interfere with future farming activities because of the depth. If, at the time of decommissioning, the salvage value of the underground cable exceeds the cost of extraction and restoration, the cables may be removed and salvaged.

## **2.6 PROJECT SUBSTATION**

Crawfish River Solar will include a Project substation as shown on the attached figures. The substation footprint will be approximately 195 feet by 280 feet and will contain within its perimeter, switches, breakers, the main power transformer, buss, control house and their associated footings. The substation will service Crawfish River Solar and although it may be retained at the end of the Project life, an estimated decommissioning cost has been included in this Plan.

## **2.7 OPERATIONS AND MAINTENANCE BUILDING**

Crawfish River will locate an operations and maintenance building within the Project area that will be of a Conex box type construction. The placement of the structure on the site will be in conformance with all local and state building codes and it will be completely removed during the decommissioning process.

## **2.8 PERIMETER FENCING, SITE ACCESS AND INTERNAL ROADS**

The Project will include a security fence around the perimeter of each array site. The perimeter fence will be completely removed from the Project site during decommissioning.

Access roads will allow access to the substation and solar facility from local roads. Internal roads will be located within the array to allow access to the equipment. The access drives and internal roads will be approximately 12 feet wide and total approximately 22,989

lineal feet (4.350 miles). The internal access road lengths may change with final Project design. This decommissioning estimate assumes that all internal roads will be restored however, some landowners may wish their internal access roads to remain. This Plan assumes all internal access roads will be made of compacted native soils.

Decommissioning activities include the de-compacting and regrading of the roads. It is conservatively assumed that six (6) inches of topsoil will need to be added to the existing soil on the access roads. The road areas will be graded, de-compacted with deep ripper or chisel plow (ripped to 18 inches), backfilled with native subsoil and topsoil, as needed, and land contours restored as near as practicable to preconstruction conditions. Roads consisting only of native soil may be de-compacted only, and re-graded to match the surrounding land surfaces.

### **3.0 LAND USE AND ENVIRONMENT**

#### **3.1 SOILS AND FARMLAND**

The proposed solar facility is predominantly located on land currently utilized for agricultural purposes. Areas of the Project that were previously utilized for agricultural purposes will be restored to their preconstruction condition and land use. Areas will be revegetated in consultation with the current landowner and in compliance with regulations in place at the time of decommissioning.

#### **3.2 RESTORATION AND REVEGETATION**

Project areas that have been excavated and backfilled will be graded as previously described to restore land as required with the landowner commitments. Soils compacted during decommissioning activities will be de-compacted, as necessary, to restore the land to pre-construction conditions. Disturbed areas will be seeded with appropriate vegetation or returned to crop production. If present, drain tiles that have been damaged will be restored to pre-construction condition. Work will be completed to comply with the conditions agreed upon by Crawfish River and Jefferson County or as directed by other federal, state and local regulations in effect at the time of decommissioning.

#### **3.3 SURFACE WATER DRAINAGE AND CONTROL**

As previously described, the proposed Project area is predominantly located in actively drained agricultural land. The terrain is relatively flat with several ditches protected by grassy buffers and berms along the edges. The Project facilities are being sited to avoid wetlands, waterways, and drainage ditches to the extent practicable.

Surface water conditions at the Project site will be reassessed prior to the decommissioning phase. Crawfish River will obtain the required water quality permits, if

needed, before decommissioning of the Project. Construction storm water permits will also be obtained, and a Stormwater Pollution Prevention Plan will be prepared describing the protection needed to reflect conditions present at the time of decommissioning. BMPs may include: construction entrances, temporary seeding, permanent seeding, mulching (in non-agricultural areas), erosion control matting, silt fence, filter berms, and filter socks.

### **3.4 MAJOR EQUIPMENT REQUIRED FOR DECOMMISSIONING**

The activities involved in decommissioning the Project include removal of the above ground components of the Project: solar modules, racking, tracking system, foundations and piles (pulled out or cut and removed to a minimum depth of two feet below the surface), inverters, transformers, access roads, perimeter fencing, Project substation, and electrical cabling and conduits (to a minimum depth of two feet below the surface). Restoration activities include de-compaction of subsoils; and re-grading project areas that have been excavated or back filled.

Equipment required for the decommissioning activities is similar to what is needed to construct the solar facility and may include, but is not limited to: small cranes, low ground pressure (LGP) track mounted excavators, backhoes, LGP track bulldozers, LGP off-road end-dump trucks, front-end loaders, deep rippers, water trucks, disc plows and tractors to restore subgrade conditions, and ancillary equipment. Over-the-road dump trucks will be required to transport material removed from the site to disposal facilities.

## **4.0 DECOMMISSIONING COST ESTIMATE SUMMARY**

Expenses associated with decommissioning the Project will be dependent on labor costs at the time of decommissioning. For the purposes of this report approximate 2019 and 2020 average market values were used to estimate labor expenses. Fluctuation and inflation of the labor costs were not factored into the estimates.

### **4.1 DECOMMISSIONING RISKS OVER TIME**

As previously noted, the probability of a decommissioning event that would lead to abandonment or long-term interruption is extremely low during the first 15 to 20 years of the Project life and accordingly, the financial risk to decommission the Project is also extremely low. Therefore, it is recommended that Financial Assurances for the net estimated decommissioning costs should therefore take into account the reduced decommissioning risks early in the Project life.

It is important to note that there are two aspects to consider in evaluating the risk for decommissioning the Project: the risk of the need to decommission the Project as a whole (Project termination risk), and the risk of failing to recuperate the cost of the decommissioning activities (decommissioning funding). The most important concern for

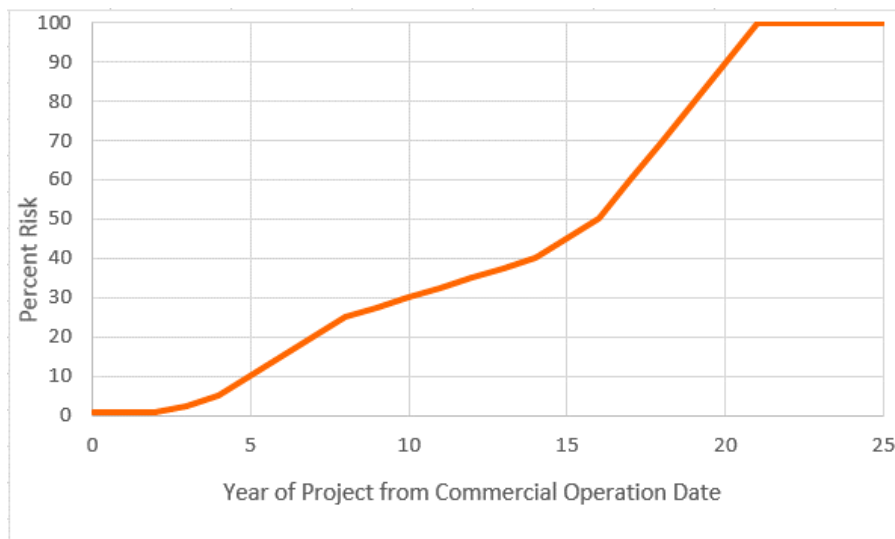
the county is the ability to recuperate the cost of decommissioning and restoration of the land to pre-Project conditions. Table 2 summarizes the estimated decommissioning cost recovery risk of the Project.

The graph shown in Table 2 uses a “one percent” risk as the lowest risk; however, the financial value of the Project or equipment in the early years would far exceed the cost of the decommissioning and restoration activities.

The factors taken into consideration in estimating the risk include, but were not limited to:

- Years 1-5 – Nearly no Project termination or financial risk due to PPAs, value of components, component warranties, value of facility as a whole.
- Years 5-10 – Minimal Project termination risk due to PPAs, value of components, component warranties, value of facility as a whole; however, some increased financial risk due to the decrease in resale value of used components and rise in technological improvements of new equipment in market.
- Years 10-15 – Similar consideration of previous period, with slightly increased risk as warranties start to expire. Value of equipment is still substantial but decreasing.
- Years 15-20 – PPAs still in place; warranties continue to expire; value of equipment diminishes with age and technological improvements in market.
- Years 20-25 – Project termination and funding risks increase as PPAs expire, value of equipment diminishes, and technological improvements in market. A rise in salvage value of removed equipment is expected due to diminishing natural resources and improvements in the efficiency of recycling/extraction technologies.

**Table 2 Estimated Decommissioning Cost Recovery Risk – 75 MW<sub>[AC]</sub> Solar Array**





## 4.2 DECOMMISSIONING EXPENSES

Project decommissioning will incur costs associated with disposal of components not sold for salvage, including materials which will be disposed of at a licensed facility, as required. Table 3 summarizes the estimates for activities associated with the major components of the Project. The total estimated decommissioning cost in Table 3 also covers costs for backfilling, grading and restoration as described in Section 2.

**Table 3 Estimated Decommissioning Expenses – 75 MW Solar Array**

Activity	Unit	Number	Cost per Unit	Total
Overhead and management (includes estimated permitting required)	Lump Sum	1	\$360,000	\$360,000
Solar modules; disassembly and removal	Each	205,000	\$4.00	\$820,000
Tracking System disassembly and removal	Each	2,847	\$620	\$1,765,140
Steel pile/post removal	Each	31,677	\$9.50	\$300,932
Transformers and inverters	Each	30	\$1,110	\$33,300
Perimeter fence removal	Linear Feet	46,613	\$2.25	\$104,879
Operations and Maintenance (Conex) Building	Each	1	\$5,000	\$5,000
Substation	Lump Sum	1	\$325,000	\$325,000
Restoration and Seeding	Lump Sum	1	\$306,000	\$306,000
<b>Total estimated decommissioning cost</b>				<b>\$4,020,251</b>

\*Cost of equipment removal would be higher if retaining for resale rather than salvage; however, the increased revenue would offset the added costs.

## 4.3 DECOMMISSIONING REVENUES

Revenue from decommissioning the Project will be realized through the sale of the solar facility components and construction materials. As previously described, the value of the decommissioned components will be higher in the early stages of the Project and decline over time. Resale of components such as solar panels is expected to be greater than salvage (i.e., scrap) value for most of the life of the Project.

Modules, the substation and other solar plant components may be sold within a secondary market for re-use. A current sampling of reused solar panels indicates a wide range of pricing depending on age and condition (\$0.20 to \$0.60 per watt). Future pricing of solar panels is difficult to predict at this time, due to the relatively young age of the market, changes to solar panel technology, and the ever-increasing product demand. A conservative estimation of the value of solar panels at \$0.20 per watt would yield \$18,040,000. Increased costs of removal, for resale versus salvage, would be expected in order to preserve the integrity of the panels; however, the net revenue would be substantially higher than the estimated salvage value.



The resale value of components such as trackers, may decline more quickly; however, the salvage value of the steel that makes up a large portion of the tracker is expected to stay at or above the value used in this report.

The market value of steel and other materials fluctuates daily and has varied widely over the past five years. Salvage value estimates were based on an approximate five-year-average price of steel and copper derived from sources including on-line recycling companies and United States Geological Survey (USGS) commodity summaries. The price used to value the steel used in this report is \$253 per metric ton; aluminum at \$0.40 per pound; silicon at \$0.40 per pound and glass at \$0.05 per pound. The main component of the tracking system and piles is assumed to be salvageable steel.

Solar panels are estimated to contain approximately 75 percent glass, 8 percent aluminum and 5 percent silicon. A 70 percent recovery rate was assumed for aluminum and all panel components, due to the processing required to separate the panel components. Alternative and more efficient methods of recycling solar panels are anticipated before this Project is decommissioned, given the large number of solar facilities that are currently being developed. Table 4 summarizes the potential salvage value for the solar array components and construction materials.

**Table 4 Estimated Decommissioning Revenues (Salvage Value Only)**

Item	Unit	Quantity per Unit	Number of Units	Salvage Price per Unit	Total Salvage Price per Item	Total
<i>Solar Array Components</i>						
Panels - Aluminum	Pounds per Panel	3.0	205,000	\$0.40	\$1.20	\$246,000
Panels - Silicon	Pounds per Panel	1.9	205,000	\$0.40	\$0.76	\$155,800
Panels - Glass	Pounds per Panel	27.8	205,000	\$0.05	\$1.39	\$284,950
Tracking System and Posts	Tons per MW	60	75	\$253	\$15,180	\$1,138,500
<i>Project Substation</i>						
Substation Components (steel and transformers)	Total	1	1	\$50,000	\$50,000	\$50,000
<b>Total Potential Revenue</b>						<b>\$1,875,250</b>

\* Revenue based on salvage value only. Revenue from used panels at \$0.20 per watt could raise \$18,040,000 as resale versus the estimated salvage revenue.

#### 4.4 DECOMMISSIONING COST SUMMARY

The following is a summary of the net estimated cost to decommission the Project, using the information detailed in Sections 4.2 and 4.3. Estimates are based on 2019-2020 prices, with no market fluctuations or inflation considered.

**Table 5 Net Decommissioning Summary**

Item	Cost/Revenue
Decommissioning Expenses	\$4,020,251
Potential Revenue – salvage value of panel components and recoverable materials	\$1,875,250
<b>Net Decommissioning Cost</b>	<b>\$2,145,001</b>

#### 4.5 FINANCIAL ASSURANCE

Crawfish River will post decommissioning security in the form of a performance bond, letter of credit or cash 15 years into the operation of the facility to cover 125 percent of the Financial Assurance Requirement as shown in Year 1 of Table 6. The Financial Assurance Requirement over the life of the Project has been calculated and shown in Table 6, considering the estimated risk of funding the decommissioning (i.e., multiplying the net estimated removal cost by the percent risk at each milestone year [1, 5, 10, 15, and 20]). For example, the Financial Assurance Requirement in Year 10 is:

**30%** (Decommissioning Funding Risk) **X \$2,145,001** (Net Estimated Decommissioning Cost) = **\$643,500** (Financial Assurance Requirement) **X 1.25 = \$804,375** (125% of Financial Assurance Requirement)

**Note that similar to the graph shown in Table 2 the decommissioning funding risk uses a “one percent” as the lowest risk; however, the financial value of the Project or equipment in the early years of the Project would far exceed the cost of the decommissioning and restoration activities and provide a net revenue to the county.**

**Table 6 Financial Assurance Summary**

Decommissioning Funding Risk	Project Year	Net Estimated Costs <sup>1</sup>	Financial Assurance Requirement <sup>2</sup>
1% Decommissioning Risk	Year 1	\$2,145,001	\$21,450
10% Decommissioning Risk	Year 5	\$2,145,001	\$214,500
30% Decommissioning Risk	Year 10	\$2,145,001	\$643,500
45% Decommissioning Risk	Year 15	\$2,145,001	\$965,250
90% Decommissioning Risk	Year 20	\$2,145,001	\$1,930,501
100% Decommissioning Risk	Year 25+	\$2,145,001	\$2,145,001

**DECOMMISSIONING PLAN**  
**CRAWFISH RIVER SOLAR PROJECT, JEFFERSON COUNTY, WISCONSIN**

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<sup>1</sup> Net Estimated Cost (decommissioning expense minus revenue) assumes a worst-case scenario of salvage value only. This is an unlikely scenario during the early stages of the Project, when resale value of the facility and the components is high.

<sup>2</sup> Financial assurance is calculated multiplying the Decommissioning Funding Risk (percent) times the Net Estimated Cost.





Figure No.

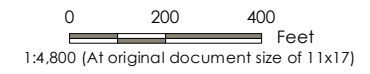
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Title

**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

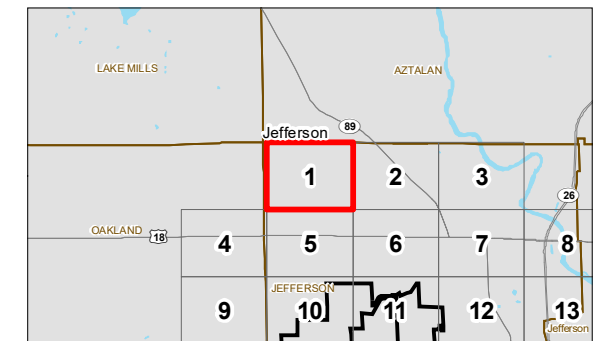
Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



**Legend**

- Project Boundary
- 1-Mile Buffer
- Approximate Bore Pit Location
- Badger State Solar Interconnection Transmission Line
- Proposed Interconnection Transmission Line
- Existing Transmission Line
- Underground Collection - Bore
- Underground Collection - Trench
- Fence Line
- PV Area
- Road
- Preliminary O&M Facility Site Selection
- Proposed Substation
- Badger State Solar Substation
- Existing Jefferson Substation
- Residence
- Industrial/Commercial Facility
- Health-care Center\*
- Day-care Center\*

\*No Features Within 1 Mile of Project



**Notes**

1. Coordinate System: NAD 1983 HARN Wisconsin TM
2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP

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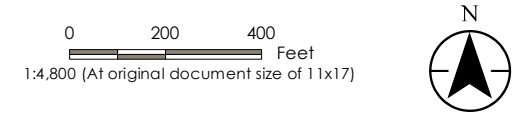
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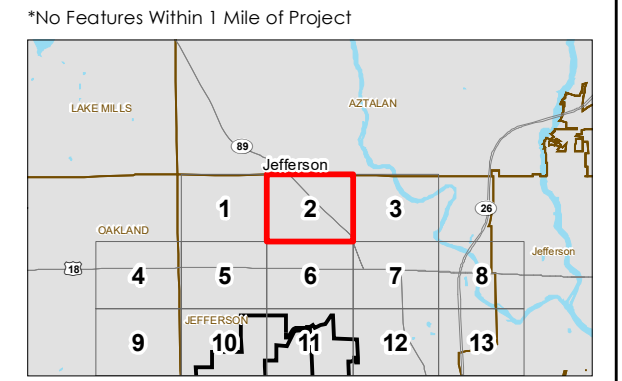
Figure No. **1**  
 Title **Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



- Legend**
- Project Boundary
  - 1-Mile Buffer
  - Approximate Bore Pit Location
  - Badger State Solar Interconnection Transmission Line
  - Proposed Interconnection Transmission Line
  - Existing Transmission Line
  - Underground Collection - Bore
  - Underground Collection - Trench
  - Fence Line
  - PV Area
  - Road
  - Preliminary O&M Facility Site Selection
  - Proposed Substation
  - Badger State Solar Substation
  - Existing Jefferson Substation
  - Residence
  - Industrial/Commercial Facility
  - Health-care Center\*
  - Day-care Center\*



**Notes**

1. Coordinate System: NAD 1983 HARN Wisconsin TM
2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP



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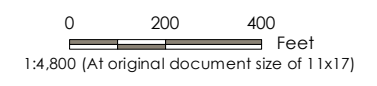
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Title

**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

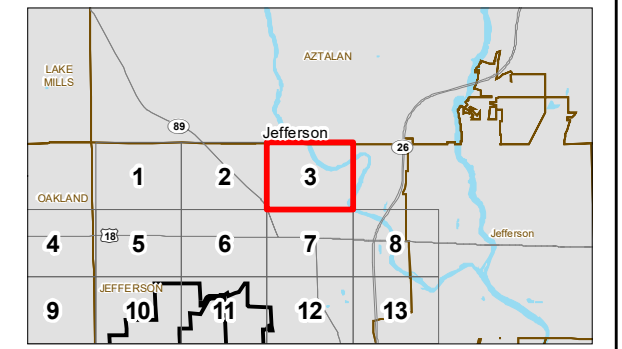
Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



**Legend**

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- Health-care Center\*
- Day-care Center\*

\*No Features Within 1 Mile of Project



**Notes**

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2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP





Figure No.

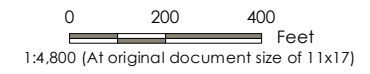
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Title

**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

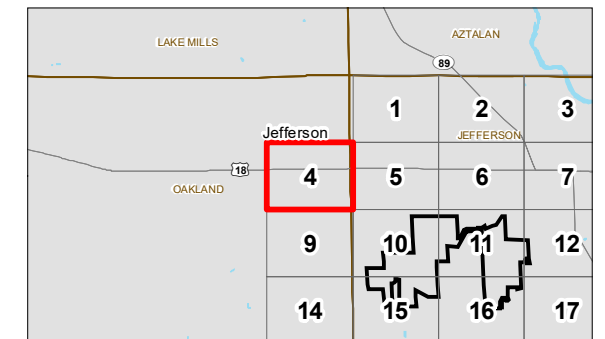
Project Location  
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 193707761  
 Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
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**Legend**

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**Notes**

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3. Orthophotography: 2018 NAIP

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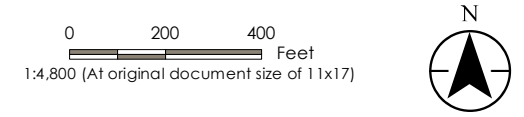
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Title

**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

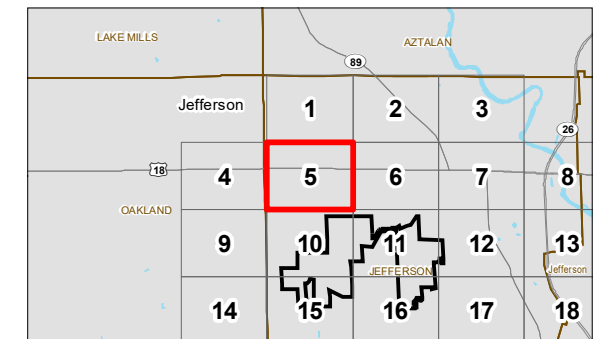
Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



**Legend**

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\*No Features Within 1 Mile of Project



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2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP

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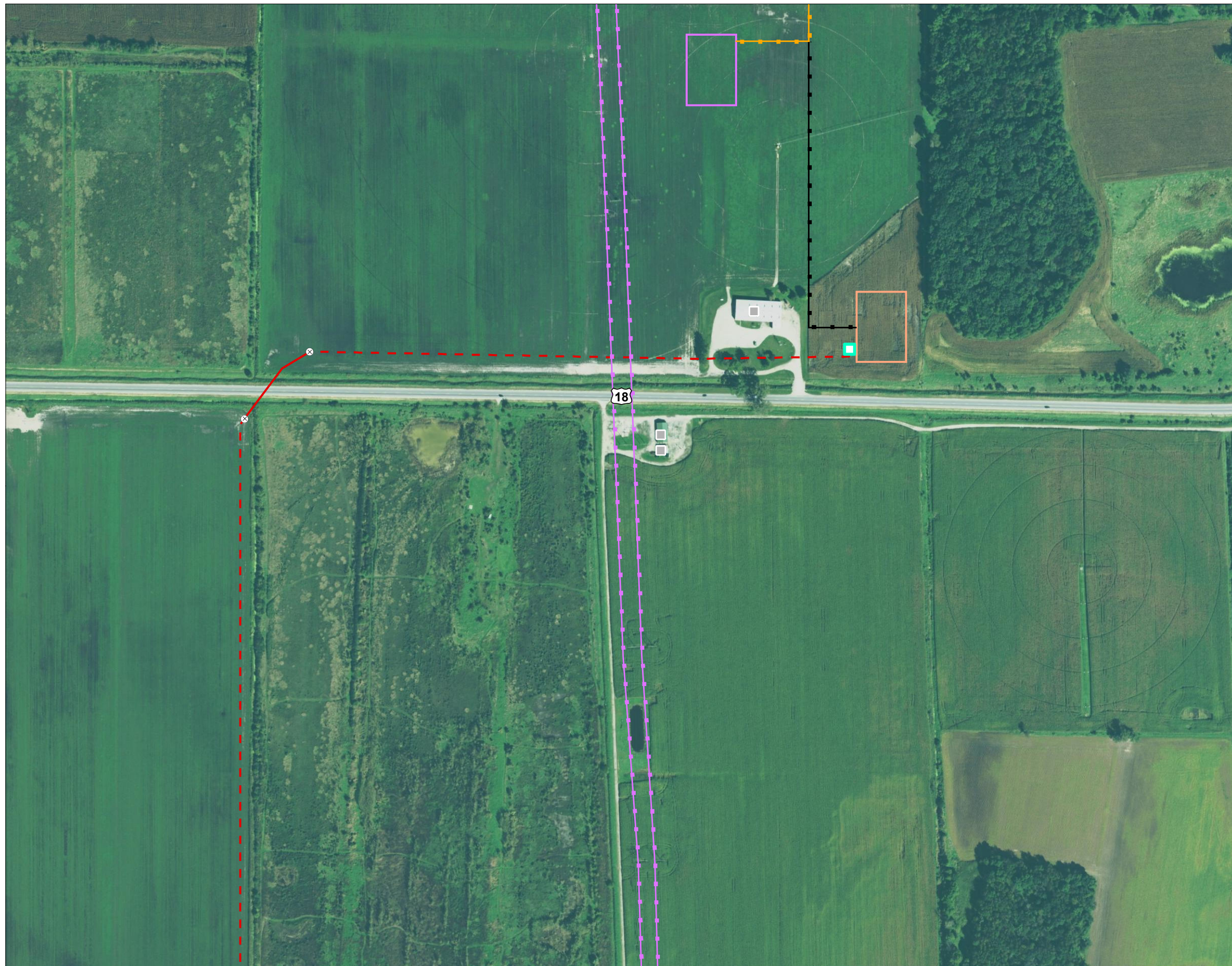
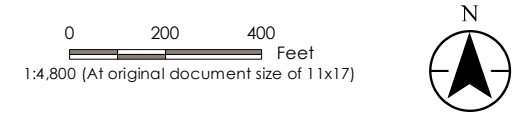


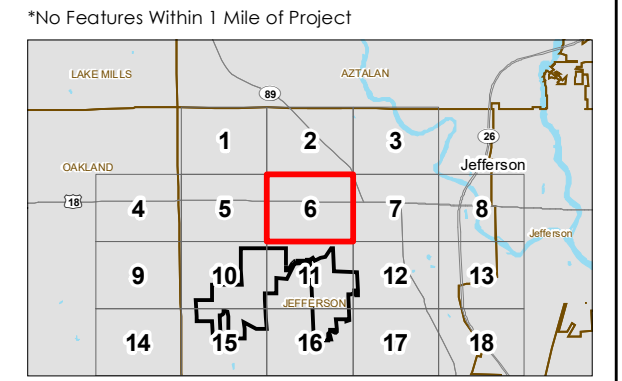
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**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location  
 Jefferson County, Wisconsin  
 193707761  
 Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



- Legend**
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**Notes**

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2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP



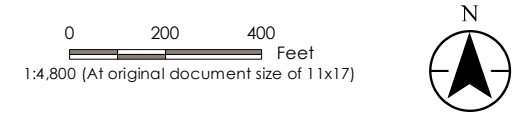
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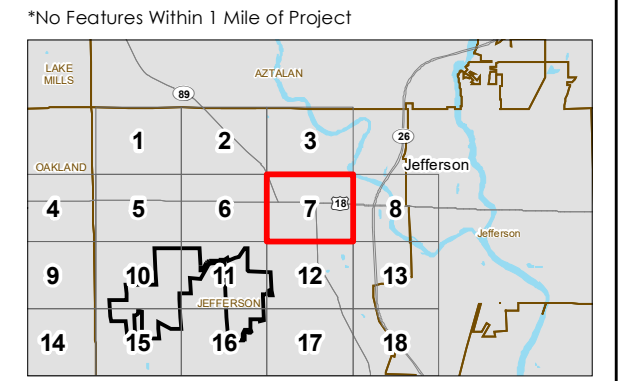
Figure No. **3**  
 Title **Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



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3. Orthophotography: 2018 NAIP





Figure No.

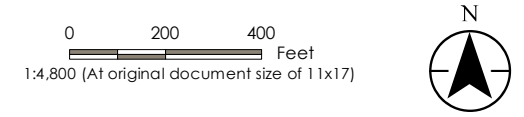
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Title

**Detailed Project Area**

Client/Project  
Crawfish River Solar, LLC  
Crawfish River Solar Project

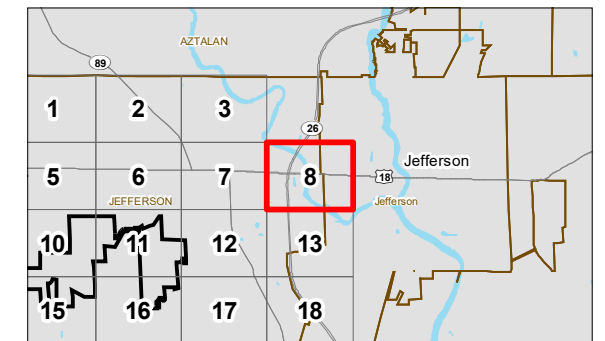
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Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
Technical Review by CP on 2020-08-07  
Independent Review by BK on 2020-08-07



**Legend**

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- Day-care Center\*

\*No Features Within 1 Mile of Project



**Notes**

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3. Orthophotography: 2018 NAIP

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Figure No.  
**3**

Title  
**Detailed Project Area**

Client/Project  
Crawfish River Solar, LLC  
Crawfish River Solar Project

Project Location  
Jefferson County,  
Wisconsin

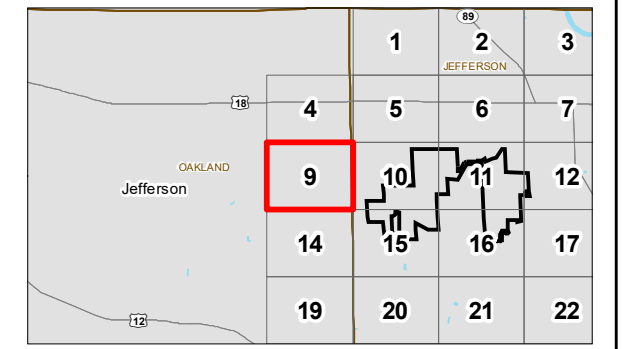
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Technical Review by CP on 2020-08-07  
Independent Review by BK on 2020-08-07



Legend

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- Notes
1. Coordinate System: NAD 1983 HARN Wisconsin TM
  2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
  3. Orthophotography: 2018 NAIP



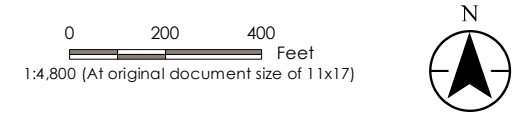
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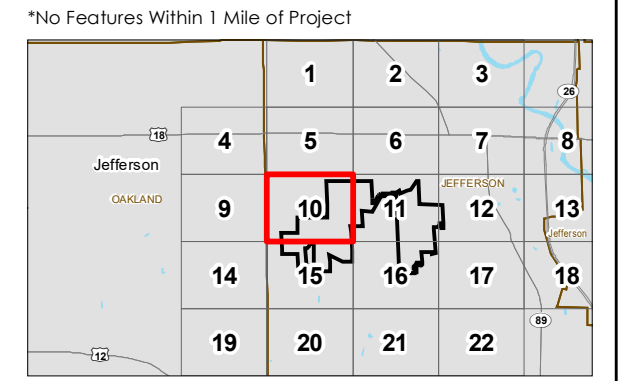
Figure No. **3**  
**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location  
 Jefferson County, Wisconsin  
 193707761  
 Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
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- Legend**
- Project Boundary
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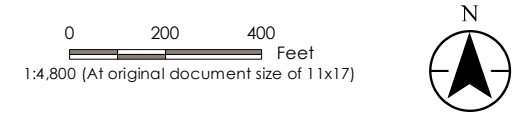
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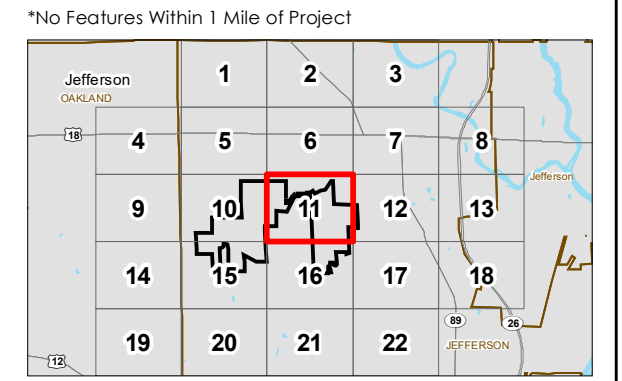
Figure No. **3**  
**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



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Figure No.  
**3**

Title  
**Detailed Project Area**

Client/Project  
Crawfish River Solar, LLC  
Crawfish River Solar Project

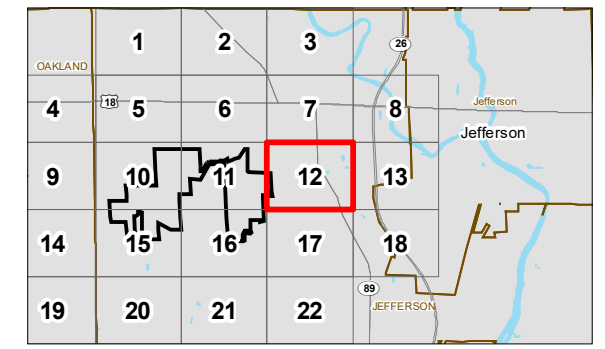
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193707761  
Prepared by MP on 2020-05-10  
Technical Review by CP on 2020-08-07  
Independent Review by BK on 2020-08-07



Legend

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\*No Features Within 1 Mile of Project



- Notes
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  3. Orthophotography: 2018 NAIP





Figure No.

**3**

Title

**Detailed Project Area**

Client/Project

Crawfish River Solar, LLC  
Crawfish River Solar Project

Project Location

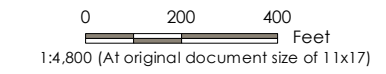
Jefferson County,  
Wisconsin

193707761

Prepared by MP on 2020-05-10

Technical Review by CP on 2020-08-07

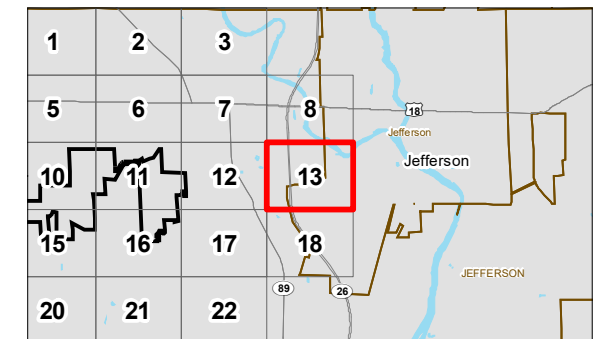
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**Legend**

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Figure No.

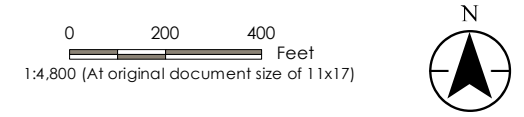
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Title

**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

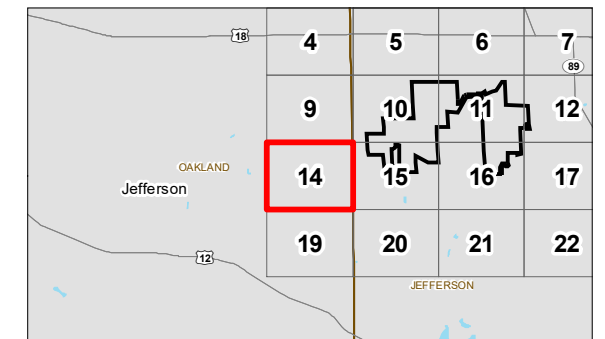
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 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



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\*No Features Within 1 Mile of Project



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3. Orthophotography: 2018 NAIP



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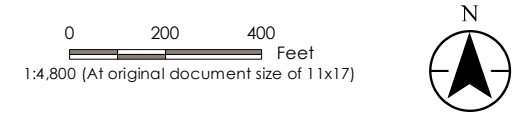


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**Detailed Project Area**

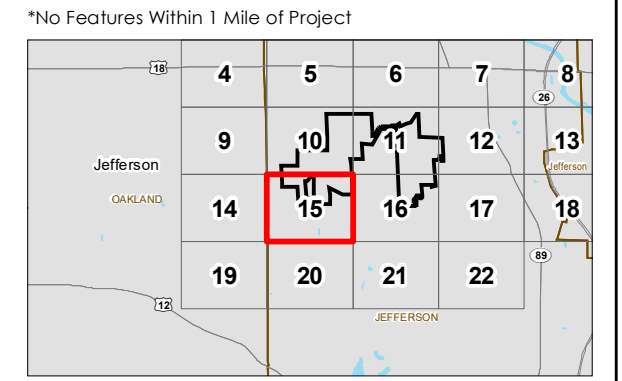
Client/Project  
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 Crawfish River Solar Project

Project Location  
 Jefferson County,  
 Wisconsin

193707761  
 Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



- Legend**
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Figure No.  
**3**

Title  
**Detailed Project Area**

Client/Project  
Crawfish River Solar, LLC  
Crawfish River Solar Project

Project Location  
Jefferson County,  
Wisconsin

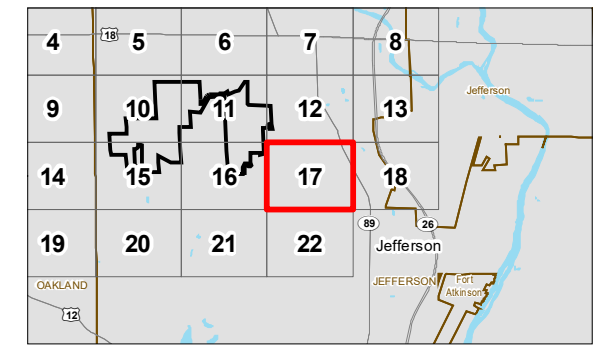
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Independent Review by BK on 2020-08-07



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Figure No.

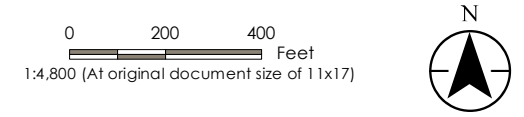
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Title

**Detailed Project Area**

Client/Project  
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 Crawfish River Solar Project

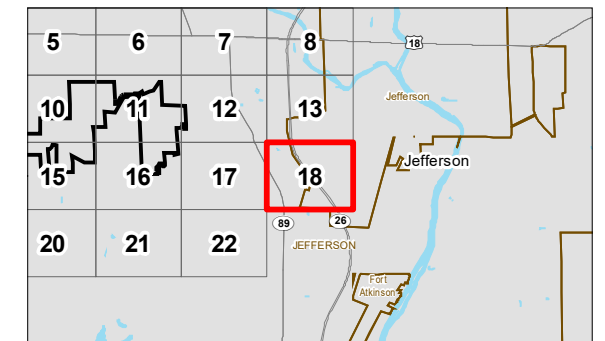
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- Industrial/Commercial Facility
- Health-care Center\*
- Day-care Center\*

\*No Features Within 1 Mile of Project



**Notes**

1. Coordinate System: NAD 1983 HARN Wisconsin TM
2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP



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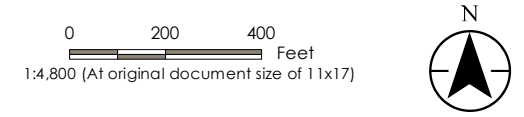
Figure No.  
**3**

Title  
**Detailed Project Area**

Client/Project  
Crawfish River Solar, LLC  
Crawfish River Solar Project

Project Location  
Jefferson County,  
Wisconsin

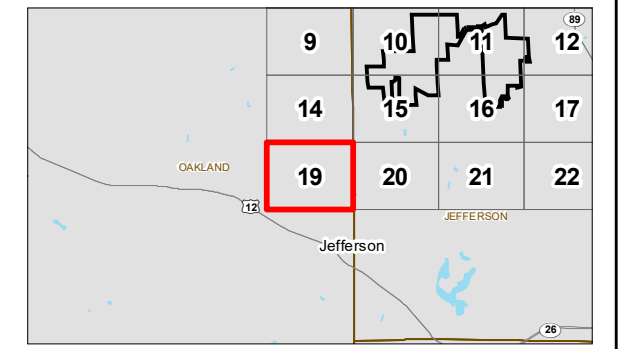
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Prepared by MP on 2020-05-10  
Technical Review by CP on 2020-08-07  
Independent Review by BK on 2020-08-07



**Legend**

- Project Boundary
- 1-Mile Buffer
- Approximate Bore Pit Location
- Badger State Solar Interconnection Transmission Line
- Proposed Interconnection Transmission Line
- Existing Transmission Line
- Underground Collection - Bore
- Underground Collection - Trench
- Fence Line
- PV Area
- Road
- Preliminary O&M Facility Site Selection
- Proposed Substation
- Badger State Solar Substation
- Existing Jefferson Substation
- Residence
- Industrial/Commercial Facility
- Health-care Center\*
- Day-care Center\*

\*No Features Within 1 Mile of Project



- Notes**
1. Coordinate System: NAD 1983 HARN Wisconsin TM
  2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
  3. Orthophotography: 2018 NAIP



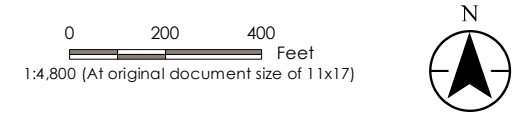
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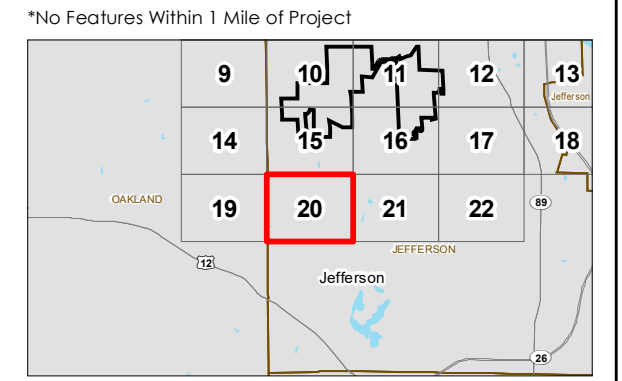
Figure No. **3**  
 Title **Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location  
 Jefferson County, Wisconsin  
 193707761  
 Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



- Legend**
- Project Boundary
  - 1-Mile Buffer
  - Approximate Bore Pit Location
  - Badger State Solar Interconnection Transmission Line
  - Proposed Interconnection Transmission Line
  - Existing Transmission Line
  - Underground Collection - Bore
  - Underground Collection - Trench
  - Fence Line
  - PV Area
  - Road
  - Preliminary O&M Facility Site Selection
  - Proposed Substation
  - Badger State Solar Substation
  - Existing Jefferson Substation
  - Residence
  - Industrial/Commercial Facility
  - Health-care Center\*
  - Day-care Center\*



**Notes**

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2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP



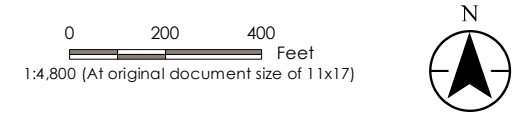
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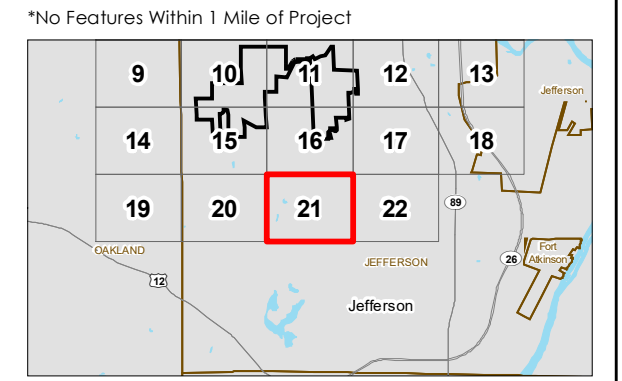
Figure No. **3**  
**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

Project Location  
 Jefferson County, Wisconsin  
 193707761  
 Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-10  
 Independent Review by BK on 2020-08-07



- Legend**
- Project Boundary
  - 1-Mile Buffer
  - Approximate Bore Pit Location
  - Badger State Solar Interconnection Transmission Line
  - Proposed Interconnection Transmission Line
  - Existing Transmission Line
  - Underground Collection - Bore
  - Underground Collection - Trench
  - Fence Line
  - PV Area
  - Road
  - Preliminary O&M Facility Site Selection
  - Proposed Substation
  - Badger State Solar Substation
  - Existing Jefferson Substation
  - Residence
  - Industrial/Commercial Facility
  - Health-care Center\*
  - Day-care Center\*



**Notes**

1. Coordinate System: NAD 1983 HARN Wisconsin TM
2. Data Sources Include: Stantec, Crawfish River Solar, LLC, WisDOT, WDNR
3. Orthophotography: 2018 NAIP





Figure No.

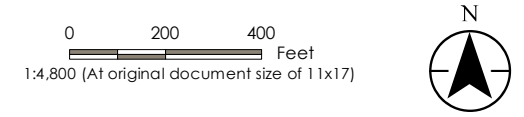
**3**

Title

**Detailed Project Area**

Client/Project  
 Crawfish River Solar, LLC  
 Crawfish River Solar Project

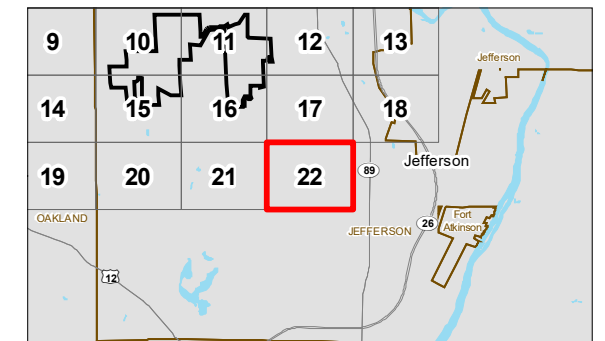
Project Location 193707761  
 Jefferson County, Wisconsin Prepared by MP on 2020-05-10  
 Technical Review by CP on 2020-08-07  
 Independent Review by BK on 2020-08-07



**Legend**

- Project Boundary
- 1-Mile Buffer
- Approximate Bore Pit Location
- Badger State Solar Interconnection Transmission Line
- Proposed Interconnection Transmission Line
- Existing Transmission Line
- Underground Collection - Bore
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- Badger State Solar Substation
- Existing Jefferson Substation
- Residence
- Industrial/Commercial Facility
- Health-care Center\*
- Day-care Center\*

\*No Features Within 1 Mile of Project



**Notes**

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3. Orthophotography: 2018 NAIP

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