

Aquatic Resources Delineation Report

Oriana Solar

Approximately 3,027 Acres

Victoria County, Texas

March 11, 2022



Prepared For:

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**Aquatic Resources Delineation
Oriana Solar Project
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1.0 - INTRODUCTION

Kimley-Horn and Associates, Inc. (Kimley-Horn) was retained by Oriana Solar LLC. (Client) to perform an Aquatic Resources Delineation for the proposed Oriana Solar Project located on approximately 3,027 acres of undeveloped land located north of Victoria, in Victoria County, Texas (site or study area). The site is located east of U.S. Highway 17 North. The study area appears to consist mainly of undeveloped agricultural land and open pastures. The study area can be seen on Figure 1 in Appendix A.

The proposed project consists of the development of a solar energy facility. Kimley-Horn conducted site visits at the study area on August 2-4 and 11-12, 2021 with the objective of identifying potential Waters of the U.S.

The purpose of performing the aquatic resources delineation was to characterize the existing site conditions and observe for the presence of potential Waters of the U.S. at the study area.

2.0 - MAPPING AND BACKGROUND INFORMATION

Prior to performing the site visit, selected maps and background information were obtained and reviewed to assist with identifying potential Waters of the U.S. on the study area. The selected resources are described below.

Topographic Map

Based on a review of the USGS topographic map (Inez NW, Texas quadrangles), the study area is predominantly depicted as undeveloped, vacant land, as evidenced by a lack of shading. Two small, forested areas are depicted onsite; one in the central and one in the northwestern portions of the study area, as evidenced by green shading. Six apparent ponds, fifteen “blue-line” features, several unimproved roads are depicted throughout the study area. A radio tower is depicted in the central-western portion of the study area. The topographic map depicts the study area as relatively flat topography ranging in elevation between 112 and 125 feet above mean sea level. The topographic map for the site can be seen as Figure 2 in Appendix A.

National Wetlands Inventory (NWI) Map and National Hydrography Dataset (NHD)

Based on review of NWI data, 53 potential wetland and/or waterbody features were identified within the study area. Fourteen riverine features, 36 freshwater emergent wetlands, and 3 “other” features were depicted within the study area. NWI data is published by the USFWS and depicts suspect wetland areas and waterbodies based on stereoscopic analysis of high altitude aerial photographs. The published data is not regularly updated and has not been validated in the field. The NHD data generally overlaps the NWI riverine features. Figure 3 in Appendix A depicts the boundaries of potential wetlands and waters as depicted and recorded by the NWI and NHD within the study area.

Soil Survey

Figure 4 in Appendix A depicts the mapped soil composition data for the study area. Hydric soil is one of the three essential characteristics of a wetland according to the USACE. According to the Victoria County Soil Survey, four soil types are depicted within the study area. Specific information for each soil type is provided below.

- Degola sandy clay loam, frequently flooded (Dw): This map unit exhibits a well drained natural drainage class. The water table is located more than 80 inches and there is no frequency of ponding or flooding associated with this map unit. According to the Natural Resources Conservation Service (NRCS), this soil class is listed as containing hydric components in Victoria County, Texas.
- Nada-Cieno, frequently ponded complex, 0 to 1 percent slopes (NcA): This map unit exhibits a moderately well drained natural drainage class. The water table is located more than 80 inches and there is no frequency of ponding or flooding associated with this map unit. According to the NRCS, this soil class is listed as containing hydric components in Victoria County, Texas.
- Telferner fine sandy loam, 0 to 1 percent slopes (TeA): This map unit exhibits a moderately well drained natural drainage class. The water table is located approximately 10 to 12 inches below the surface and there is no frequency of ponding or flooding associated with this map unit. According to the NRCS, this soil class is listed as containing hydric components in Victoria County, Texas.
- Telferner fine sandy loam, 1 to 3 percent slopes (TeB): This map unit exhibits a moderately well drained natural drainage class. The water table is located approximately 10 to 12 inches below the surface and there is no frequency of ponding or flooding associated with this map unit. According to the NRCS, this soil class is not listed as containing hydric components in Victoria County, Texas.

According to the NRCS, three of the soil types, Dw, NcA, and TeA, shown within the study area contain hydric components; suggesting that wetlands could be anticipated onsite.

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM)

Figure 5 in Appendix A depicts the FEMA floodplain zones across the study area. According to the FEMA Flood Insurance Rate Map (FIRM) (Panel Number 4806370150B, effective September 18, 1987), the majority of the study area is located within Zone X: Area of Minimal Flood Hazard which is outside of the FEMA designated 100-year and 500-year flood zones. The northern area of the site is designated as Zone A: 100-year Floodplain.

Aerial Photographs

Figures 6a through 6c in Appendix A provide aerial photographs of the study area dated 1996, 2015, and 2020; respectively. Conditions within the study area appear to be generally consistent on the selected aerial photographs. The study area is generally depicted as largely undeveloped agricultural fields and pastureland.

Recent aerial photography (2020) is used as base data for Figures 7, 7a, and 7b in Appendix A which depict the delineated aquatic resources observed within the study area. Figure 7 is a locator map for Figures 7a and 7b. Streams are abbreviated as S. Swales are abbreviated as SW. Open waters are abbreviated as OW. Wetlands are abbreviated as W.

Ground level photographs are provided in Appendix B. Figure 1 in Appendix B provides the general location of site visit photographs. Site visit photographs are included in Appendix B. Site visit photographs correspond to the numbering system on the tables from the maps.

3.0 - FIELD METHODS

Kimley-Horn personnel conducted site visits on August 2-4 and 11-12, 2021 with the objective of identifying potential Waters of the U.S. At the time of the site visits, the temperature ranged from approximately 85° to 100° Fahrenheit, with partly cloudy skies, scattered thunderstorms, and sun during the site visits.

Characteristics of potential Waters of the U.S. were assessed utilizing the criteria detailed in the sections below. Referencing both the photo location map shown on Figure 1 in Appendix B, as well as the Aquatic Resource Map shown on Figures 7, 7a-7b in Appendix A, will help supplement the following discussion.

3.1 - WETLANDS

Guidance from the “Corps of Engineers Wetlands Delineation Manual” USACE Waterways Experiment Station Wetlands Research Program Technical Report Y-87-1, dated January 1987 for routine wetland determinations for areas greater than five-acres (as modified by the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, Version 2.0, November 2010), was used to evaluate the presence of wetlands within the study area. The USACE defines wetlands as “those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas” (33 CFR 328.3b). Wetlands generally have three essential characteristics: hydrophytic vegetation, hydric soils, and wetland hydrology.

Observations for the presence of wetland vegetation and hydrology indicators were performed and soil pits were excavated to evaluate the presence of hydric soils.

Vegetation Characteristics

The study area was observed to determine the species, when possible, and percentage of ground cover for four strata of plant community types. Herbs were generally observed within a five-foot radius; shrubs/saplings were generally observed within a 15-foot radius; trees and woody vines were generally observed within a 30-foot radius of the soil station location. For each species of vegetation observed, their wetland indicator status was identified through review of the National Wetland Plant List (NWPL). Indicator status categories for vegetation are presented below:

- Obligate Wetland (OBL) - occur almost always (estimated probability greater than 99%) under natural conditions in wetlands.
- Facultative Wetland (FACW) - usually occur in wetlands (estimated probability 7%-99%), but occasionally found in non-wetlands.
- Facultative (FAC) - equally likely to occur in wetlands or non-wetlands (estimated probability of 34%-66%).
- Facultative Upland (FACU) - usually occur in non-wetlands (estimated probability of 67%-99%), but occasionally found in wetlands.

- Obligate Upland (UPL) - rarely occur in wetlands, but occur almost always (estimated probability greater than 99%) under natural conditions in non-wetlands.

Hydrology Characteristics

Visual indicators of wetland hydrology were evaluated throughout the study area. According to the USACE, examples of primary wetland hydrology indicators include, but are not limited to, surface water, high water table, soil saturation, water marks, sediment deposits, drift deposits, iron deposits, inundation visible on aerial imagery, and water-stained leaves. Examples of secondary wetland hydrology indicators include, but are not limited to, surface soil cracks, drainage patterns, moss trim lines, and crayfish burrows. Under normal conditions, if at least one primary wetland hydrology indicator and/or two secondary wetland hydrology indicators are observed, the observation location should be considered to have wetland hydrology.

Hydric Soils Characteristics

After evaluating vegetation and hydrology characteristics, subsurface soil samples were collected and were visually compared to Munsell Soil Color Charts. Potential hydric soils indicators were evaluated utilizing the Field Indicators or Hydric Soils in the United States manual published by the NRCS. Under normal conditions, if hydric soils indicators are observed, the observation location should be considered to have hydric soils.

3.2 - WATERBODIES

Section 404 of the Clean Water Act establishes a program to regulate the discharge of dredged or fill material into waters of the U.S., including jurisdictional wetlands. Under Section 404 of the Clean Water Act, the discharge of dredged and fill material into waters of the U.S. is regulated, and in many circumstances, authorization from the USACE is required prior to commencing construction activities.

Section 10 of the Rivers and Harbors Act requires that regulated activities conducted below the ordinary high water mark elevation of navigable waters of the U.S. or mean high water mark for tidal waters be approved/permitted by the USACE. Regulated activities include the placement/removal of structures, work involving dredging, disposal of dredged material, filling, excavation, or any other disturbance of soils/sediments or modification of a navigable waterway. Navigable waters of the U.S. are those waters that are subject to the ebb and flow of the tide shoreward to the mean high water mark and/or are presently used, or have been used in the past or may be susceptible to use to transport interstate or foreign commerce.

On June 5, 2007 (updated December 2008), the U.S. Environmental Protection Agency (EPA) and the USACE jointly issued guidance interpreting the Supreme Court's June 2006 split decision in the consolidated cases of *Rapanos v. U.S.* and *Carabell v. U.S.* (known as the Rapanos decision). Following the Rapanos decision, the Corps issued a Regional Guidance Letter (RGL-08-02) on June 26, 2008 documenting the procedures for Preliminary and Approved Jurisdictional Determinations. This guidance was clarified and superseded in October 2016 by RGL 16-01. An Approved Jurisdictional Determination (AJD) is a document that precisely identifies the limits of waters of the U.S. on a study area. A Preliminary Jurisdictional Determination (PJD) is an unofficial document that indicates that there are waters of the U.S. present. Approved JDs can be appealed while PJDs cannot. Regional Guidance Letter-16-01 indicates that the recipient of a PJD can request and obtain an AJD if that later becomes necessary. A No Permit Required letter is a Corps issued document that indicates that a specific project will not involve activities subject to the requirements of Section 404 or Section 10; therefore, that project would not require a Department of Army permit.

The Navigable Waters Protection Rule (NWPR) was enacted in June 2020 and it redefined waters of the U.S. On August 30, 2021 the U.S. District Court for the District of Arizona issued an order vacating and remanding the NWPR in the case of *Pascua Yaqui Tribe v. U.S. Environmental Protection Agency*. This order applies nationwide and steps for implementation under the pre-2015 waters of the U.S. regulatory regime were provided by USACE Headquarters on September 8, 2021. This court decision has re-implemented the Rapanos Guidance. It should be known that the results and recommendations documented in this report are based on the Rapanos Guidance. The regulatory environment can change quickly and frequently and changes to regulations pertaining to waters of the U.S. may affect results and recommendations.

Potential jurisdictional streams are typically evaluated based on the observations of the following characteristics:

- Flow
 - Perennial: contains water at all times of the year except during extreme drought
 - Intermittent: contains water occasionally or seasonally
 - Ephemeral: contains water only during and immediately after periods of rainfall or snowmelt
- Ordinary High Water Mark (OHWM): The limit line on the shore established by the fluctuation of the water surface shown by:
 - A clear line impressed on the bank
 - Shelving
 - Changes in soil character
 - Destruction of terrestrial vegetation
 - Presence of litter and debris
- Bank Shape
 - Undercut: banks that overhang the stream channel
 - Steep: bank slope of approximately greater than 30 degrees
 - Gradual: bank slope of approximately 30 degrees or less
- Aquatic Habitat
 - Pool: deeper portion of a stream where water flows slower than in neighboring, shallower portions, smooth surface, and finer substrate
 - Riffle: shallow area in a stream where water flows swiftly over gravel and rock or other coarse substrate resulting in a rough flow and a turbulent surface

The Corps generally asserts jurisdiction to the normal pool elevation for lakes and ponds, if those features are considered jurisdictional.

It is Kimley-Horn's experience with the Galveston District Corps that the Rapanos Decision had little impact on what this District would assert jurisdiction over. In other words, if an aquatic feature was considered jurisdictional prior to the Rapanos Decision, it would be jurisdictional following the Rapanos Decision. The Rapanos Guidance discusses linear aquatic features as follows:

- Ephemeral streams flow only as a response to rain and are not influenced by groundwater. Under the Rapanos guidance these aquatic features may be classified as non-relatively permanent waters (non-RPW). These aquatic features are described as non-navigable

tributaries that are not relatively permanent. These aquatic features require a fact-specific analysis to determine whether they have a significant nexus with a TNW. The Corps, with EPA oversight, makes the determination based on information submitted to them by the permit applicant. If a significant nexus is determined, the agencies will assert jurisdiction;

- Intermittent streams may be influenced by groundwater and flow for a longer period of time than ephemeral streams but do not have continuous flow all year long. Under the Rapanos guidance these may be classified as relatively permanent waters (RPW). These aquatic features can be described as non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically have continuous flow at least seasonally (e.g., typically three months); and
- Perennial streams have continuous flow for most of a typical year. Under the Rapanos Guidance, these may be classified as TNWs or RPWs. Relatively permanent waters can be described as non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round.

In addition to streams, other features such as swales or ditches are described as follows:

- Swales or erosional features (e.g., gullies, small washes characterized by low volume infrequent, or short duration flow); and
- Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

The Rapanos Guidance states that the agencies generally will not assert jurisdiction over swales and ditches. However, certain geographic features (e.g. swales, ditches, pipes) may contribute to a surface hydrological connection and could be considered jurisdictional where the features:

- Replace and relocate a Water of the U.S.; or
- Connect a Water of the U.S. to another Water of the U.S.; or
- Provide a relatively permanent flow to Waters of the U.S.

Waters found within the study area will be discussed in detail relative to the Rapanos Guidance.

4.0 - SUMMARY OF RESULTS

Three intermittent streams, two ephemeral streams, one swale, two open water features, 48 emergent wetlands, and one emergent wetland matrix were identified within the study area. The locations of the delineated aquatic resources are depicted on Figures 7, 7a-7b in Appendix A. Descriptions of the onsite features are provided in the following sections.

Table 1. A summary of observed aquatic resources within the study area.

Feature Type	Amount of Aquatic Resource Acres	Amount of Aquatic Resource Linear Feet	Waters of the U.S.?
Likely Jurisdictional Intermittent Stream (S)	0.62 acre	5,358 linear feet	Yes
Likely Non-Jurisdictional Ephemeral Stream (S)	0.02 acre	249 linear feet	No
Likely Non-Jurisdictional Swale (SW)	N/A	348 linear feet	No
Likely Jurisdictional Open Water (OW)	2.51 acres	N/A	Yes
Likely Jurisdictional Emergent Wetland (W)	585.43 acres	N/A	Yes
Likely Jurisdictional Emergent Wetland Matrix (W)	219.66 acres	N/A	Yes
Likely Non-Jurisdictional Emergent Wetland (W)	30.39 acres	N/A	No

4.1 - STREAMS

Three (3) intermittent streams traversing a total of 5,358 linear feet and measuring a total of approximately 0.62 acre were observed within the northern portion of the site. Streams S1a, S1b, and S5 are segments of Willow Creek. Streams S1a and S1b are separated by a culvert beneath an unimproved road. The intermittent streams averaged a 3 to 8-foot wide OHWM. Two (2) ephemeral streams traversing a total of 249 linear feet and measuring a total of approximately 0.02 acre were observed within the northern portion of the site. The ephemeral streams were observed to generally flow north into Willow Creek and averaged a 3-foot wide OHWM.

4.2 – SWALES

One (1) swale traversing 348 linear feet was observed within the northern portion of the site. The swale was observed to be vegetated with no visible OHWM or flow. The swale was observed to exhibit conditions consistent with short duration, low volume flows.

4.3 – OPEN WATERS

Two (2) open waters were observed in the northern and western portions of the study area. Open Water 1 (OW1) was located along Willow Creek and appeared to be excavated. The open water totaled approximately 2.44 acres in size. Open Water 2 (OW2) appeared to have been excavated for irrigation purposes and was adjacent to a pump. Open Water 2 totaled approximately 0.07 acre in size.

4.4 - WETLANDS

Forty-nine (49) emergent wetlands (including one emergent wetland matrix area) were observed within the study area. Many emergent wetlands were observed to be linear emergent wetlands located within irrigation canals throughout the site. The emergent wetlands in the southern portion of the site are likely a result of agricultural practices utilized for rice production. Most of the observed linear emergent wetlands were generally located along NWI mapped features. Nine (9) wetlands (W1-W8 and W10) were located within the FEMA 100-year floodplain. Thirteen (13) emergent wetlands were observed (W9, W11-W12, W17-W23, and W38) to be isolated from other aquatic features. Thirty-six (36) emergent wetlands, including one emergent wetland matrix (W1-8, W10, W13-W16, W24-W37, W39-W45, W48-W49)) exhibited a direct physical connection to downgradient jurisdictional features.

4.5 - UPLANDS

During the site visit, Kimley-Horn personnel traversed the project site and observed areas that are typically indicative of being classified as uplands. The study area can best be categorized into two distinct vegetation types: open field and agricultural field. This vegetation type is a result of current and historic land use practices. The open field makes up approximately 70 percent of the study area and is characterized by Canada goldenrod (*Solidago altissima*), dallisgrass (*Paspalum dilatatum*), goatweed (*Capraria biflora*), bermudagrass (*Cynodon dactylon*), and other ruderal species. The agricultural fields make up approximately 30 percent of the study area and appeared to have been utilized for rice production. The agricultural fields can be described as wetland areas as hydrology indicators were identified in these areas.

5.0 - CONCLUSIONS

According to our delineation, Kimley-Horn observed five (5) streams (three intermittent and two ephemeral); one (1) swale; two (2) open water features; and forty-nine (49) wetland features, including one emergent wetland matrix, occurring within the study area.

It is our analysis that all of the streams, are likely Waters of the U.S. because they contribute surface flow into Lavaca Bay, a Traditional Navigable Water (TNW).

It is our analysis that the swale, SW1, is likely not a Water of the U.S. because it lacked an observable OHWM and was observed to exhibit conditions consistent with short duration, low volume flows.

It is our analysis that open waters, OW1 and OW2, are likely Waters of the U.S. because they contribute surface water flow to other jurisdictional aquatic features. OW1 directly contributes surface water to S5. OW2 directly contributes surface water to W26.

It is our analysis that observed emergent wetlands, including an emergent wetland matrix W1-8, W10, W13-W16, W24-W37, W39-W45, W48-W49 are likely Waters of the U.S. Each of these wetlands exhibited a direct physical connection to downgradient jurisdictional features.

Conversely it is our analysis that the remaining wetlands (W9, W11-W12, W17-W23, and W38) are likely not Waters of the U.S. because they do not have any hydrologic connection to a jurisdictional aquatic feature and are not located within the FEMA mapped 100-year floodplain.

Corps coordination in the form of an Approved Jurisdictional Determination (AJD) can be sought should the Client wish to validate our analysis. The Corps approaches each determination on a case-by-case basis and the outcome of an AJD is a letter stating what features are jurisdictional and would require permitting. It is our understanding that the Client will avoid impacts to all aquatic features identified as part of this aquatic resources delineation and will pursue a request for a No Permit Required (NPR) letter for the proposed project based on no impacts to aquatic features.

6.0 – USACE PERMIT CONSIDERATIONS

It is our understanding that the Client will avoid impacts to all aquatic features identified as part of this aquatic resources delineation. Therefore, no USACE permitting will be required for the project. It is our understanding that the Client will pursue a request for a No Permit Required (NPR) letter for the proposed project based on no impacts to aquatic features.

Please note that our analysis is based on our professional judgment and understanding of the applicable laws and our experience with their interpretation. However, we do not control, and cannot predict, how the Corps will respond in any particular situation.

DISCLAIMER

Kimley-Horn has prepared this document based on limited field observations and our interpretation, as wetland scientists, of the Corps' regulations at 33 CFR 328 Definition of waters of the United States, joint Corps and EPA guidance regarding the Rapanos Decision issued on June 5, 2007 (revised in December 2008). While Kimley-Horn believes our interpretation to be accurate, final authority to interpret the regulations lies with the Corps and EPA. Corps and EPA Headquarters occasionally issue guidance that changes the interpretation of published regulations. Guidance issued after the date of this report has the potential to invalidate our conclusion and/or recommendations and may cause a need to reevaluate our recommendation. Because Kimley-Horn has no regulatory authority, the Client understands that proceeding based solely upon this document does not protect the Client from potential sanction or fines from the Corps. The Client acknowledges that they have the opportunity to submit a proposed jurisdictional determination to the Corps for concurrence prior to proceeding with any work. If the Client elects not to do so, then the Client proceeds at their sole risk.

Please contact Carland Holstead by phone at (469) 914-8717 or by email at carland.holstead@kimley-horn.com if you have questions or need additional information.

This report has been prepared by:

KIMLEY-HORN AND ASSOCIATES, INC.



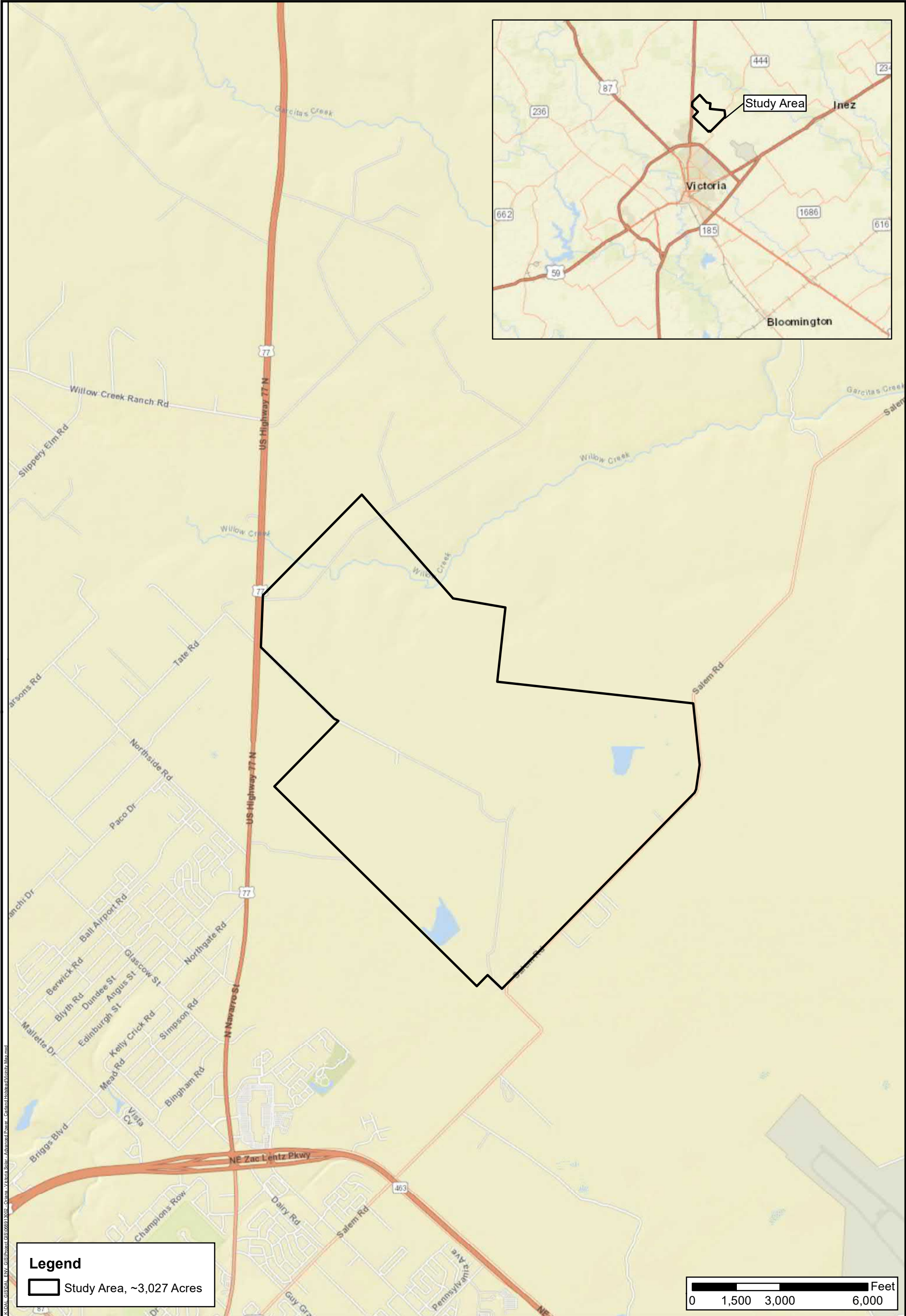
Meredith Aiken
Environmental Scientist



Carland G. Holstead, PWS
Senior Environmental Project Manager

Appendix A

STUDY AREA MAPS



\\CGH\GIS\DATA\ENV\GIS\Projects\068913002_Oriana_Victoria_Solar\Approved\Draw - Client\101816_Victoria_Memo.dwg

FIGURE

1

DATE:	08/12/2021
DRAWN:	MREA
CHECKED:	CGH
KHA NO.:	068913002

VICINITY MAP

Source: ESRI Basemap

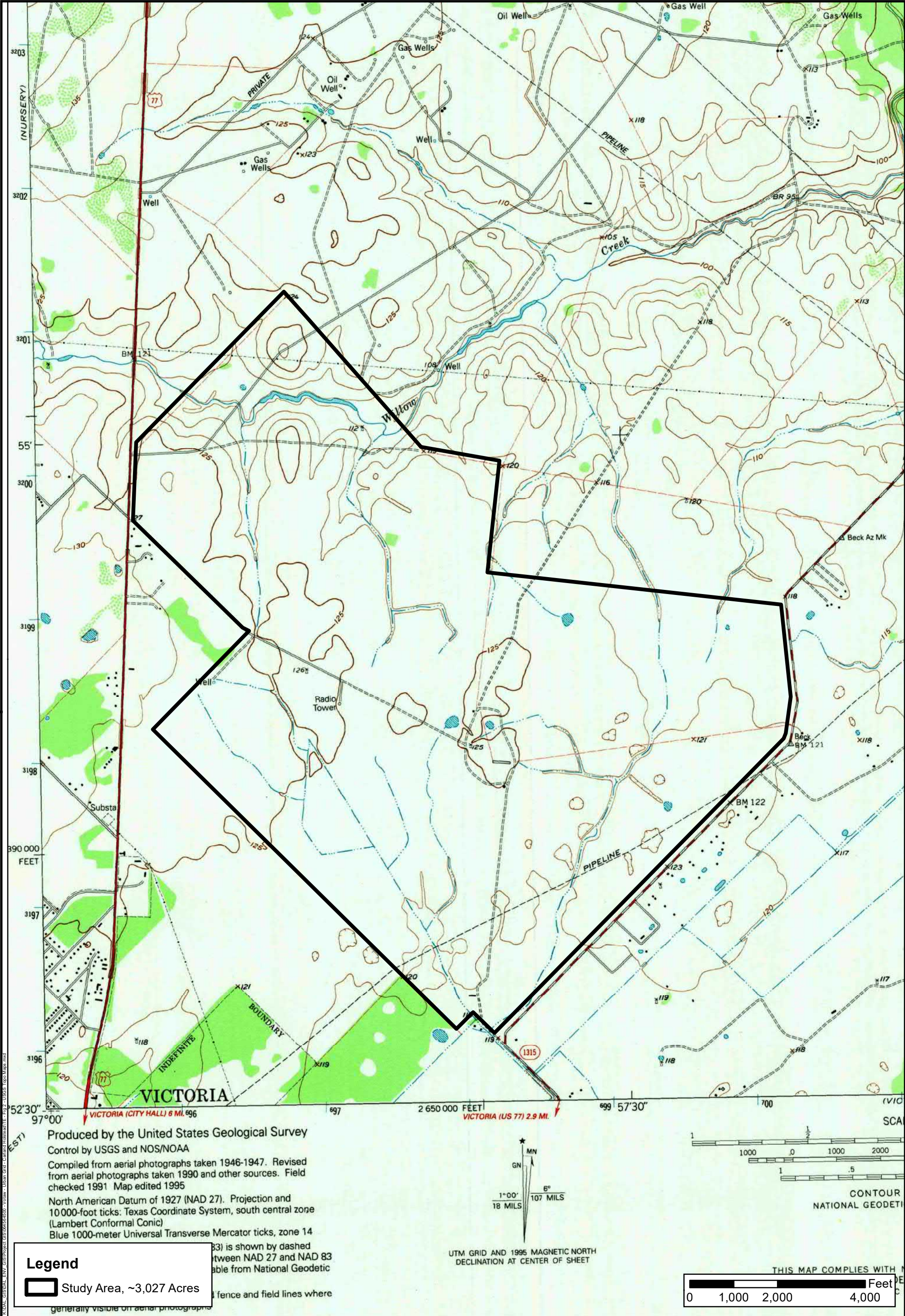
ORIANA SOLAR

Victoria County, Texas



Kimley»Horn

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.



Legend

Study Area, ~3,027 Acres

FIGURE

2

DATE:	08/12/2021
DRAWN:	MREA
CHECKED:	CGH
KHA NO.:	068913002

USGS TOPOGRAPHIC MAP

Quad Name: Inez NW

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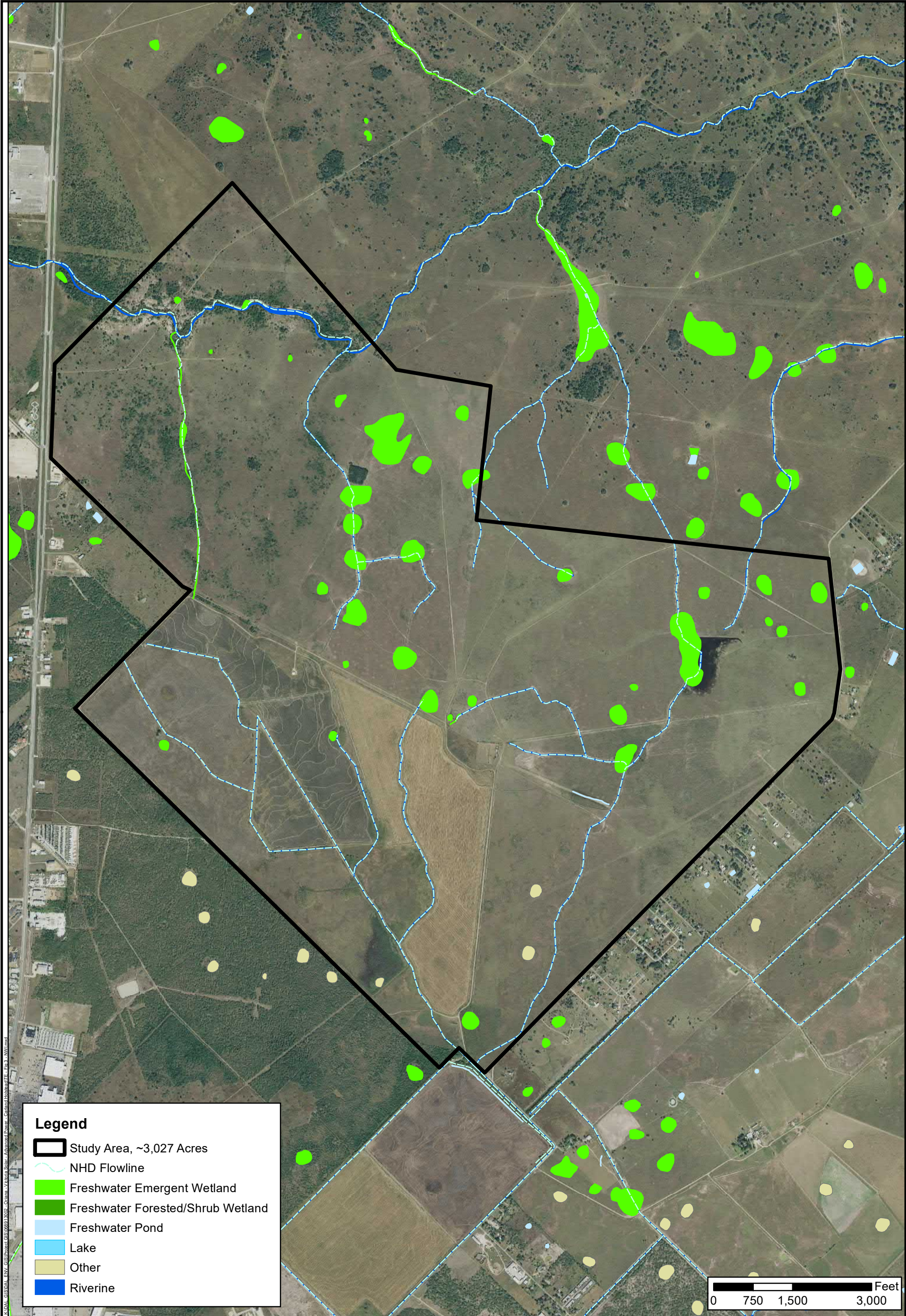
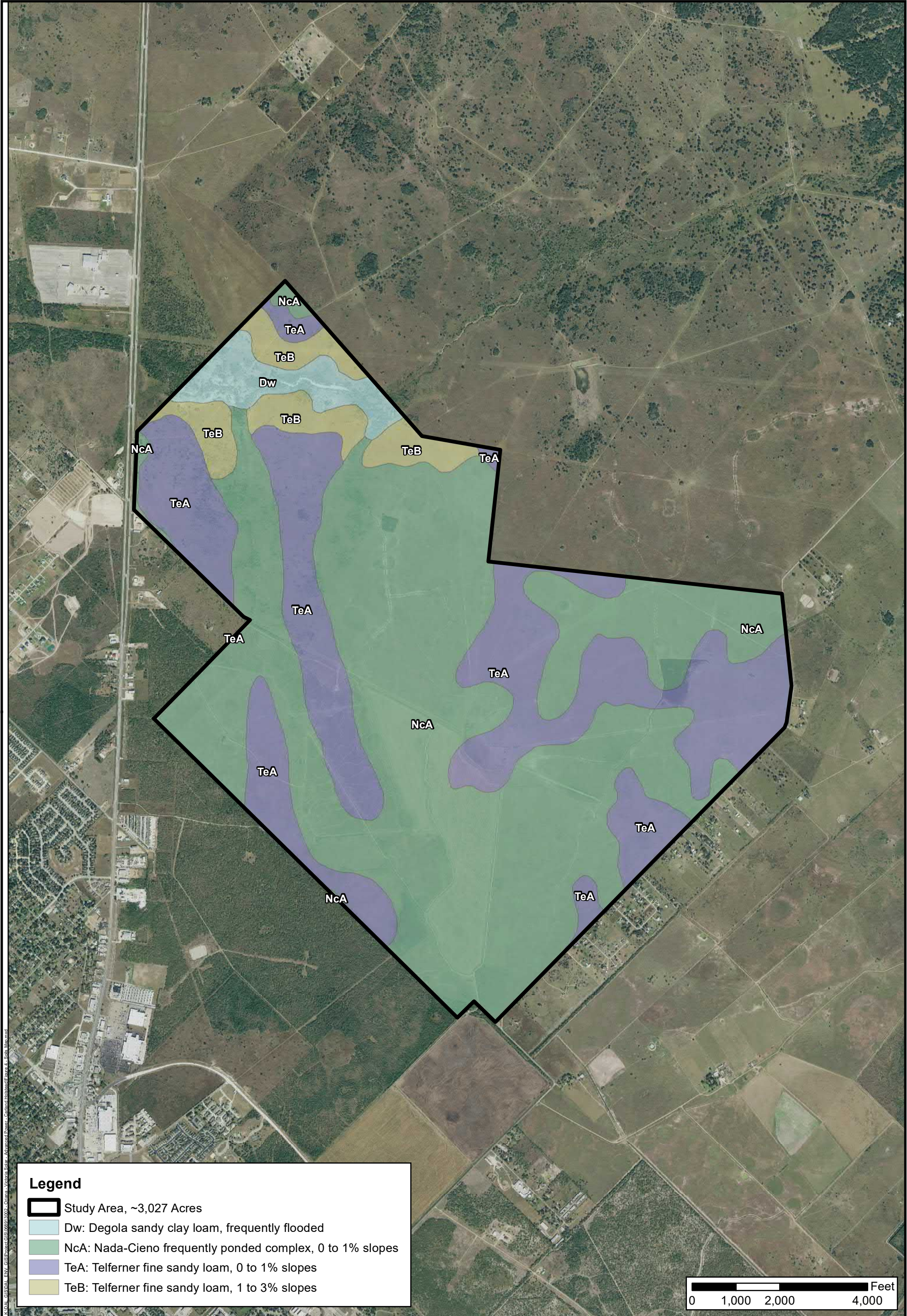


FIGURE 3	DATE: 08/12/2021	NATIONAL WETLANDS INVENTORY AND NHD FLOWLINES MAP Source: USFWS	ORIANA SOLAR Victoria County, Texas		Kimley»Horn This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.
	DRAWN: MREA				
	CHECKED: CGH				
	KHA NO.: 068913002				



Legend

- Study Area, ~3,027 Acres
- Dw: Degola sandy clay loam, frequently flooded
- NcA: Nada-Cieno frequently ponded complex, 0 to 1% slopes
- TeA: Telferner fine sandy loam, 0 to 1% slopes
- TeB: Telferner fine sandy loam, 1 to 3% slopes

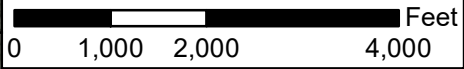
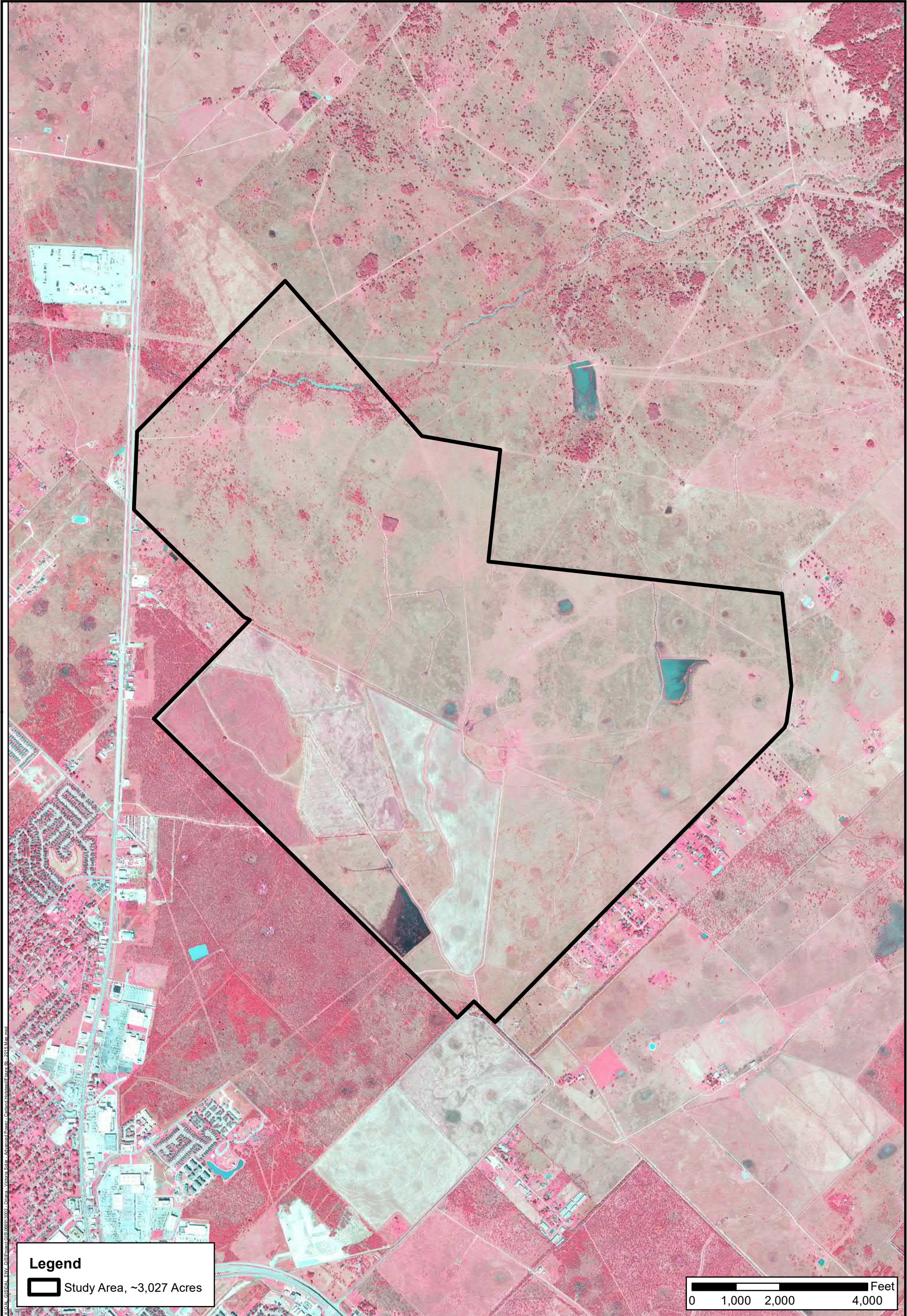


FIGURE 4	DATE: 06/02/2021	NRCS SOILS MAP Source: USDA/NRCS	ORIANA SOLAR Victoria County, Texas		Kimley»Horn This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.
	DRAWN: MREA				
	CHECKED: CGH				
	KHA NO.: 068913002				



LOCAL, DISTAL, ENV. 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2, 1, 0

Legend

Study Area, ~3,027 Acres

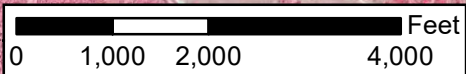
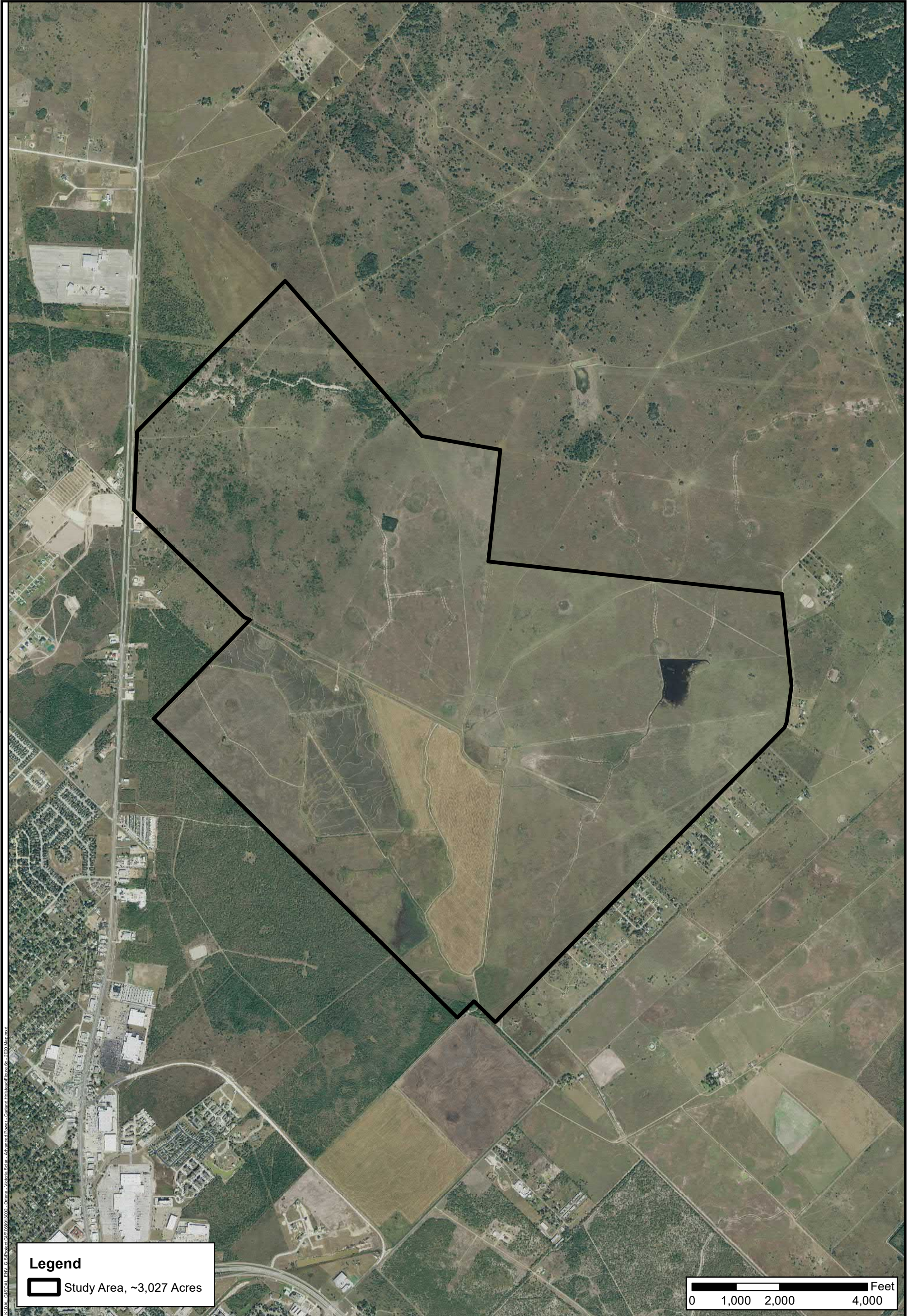


FIGURE 6b	DATE: 06/02/2021	COLOR INFRARED HISTORIC AERIAL TNRIS, TOP 2015	ORIANA SOLAR Victoria County, Texas		Kimley»Horn This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.
	DRAWN: MREA				
	CHECKED: CGH				
	KHA NO.: 068913002				



\\0371\GIS\DATA\ENV\GIS\2021\06\02\Oriana Solar\Advanced\Drawn\OrianaSolarTNRIS2020.mxd

Legend

 Study Area, ~3,027 Acres

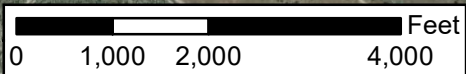
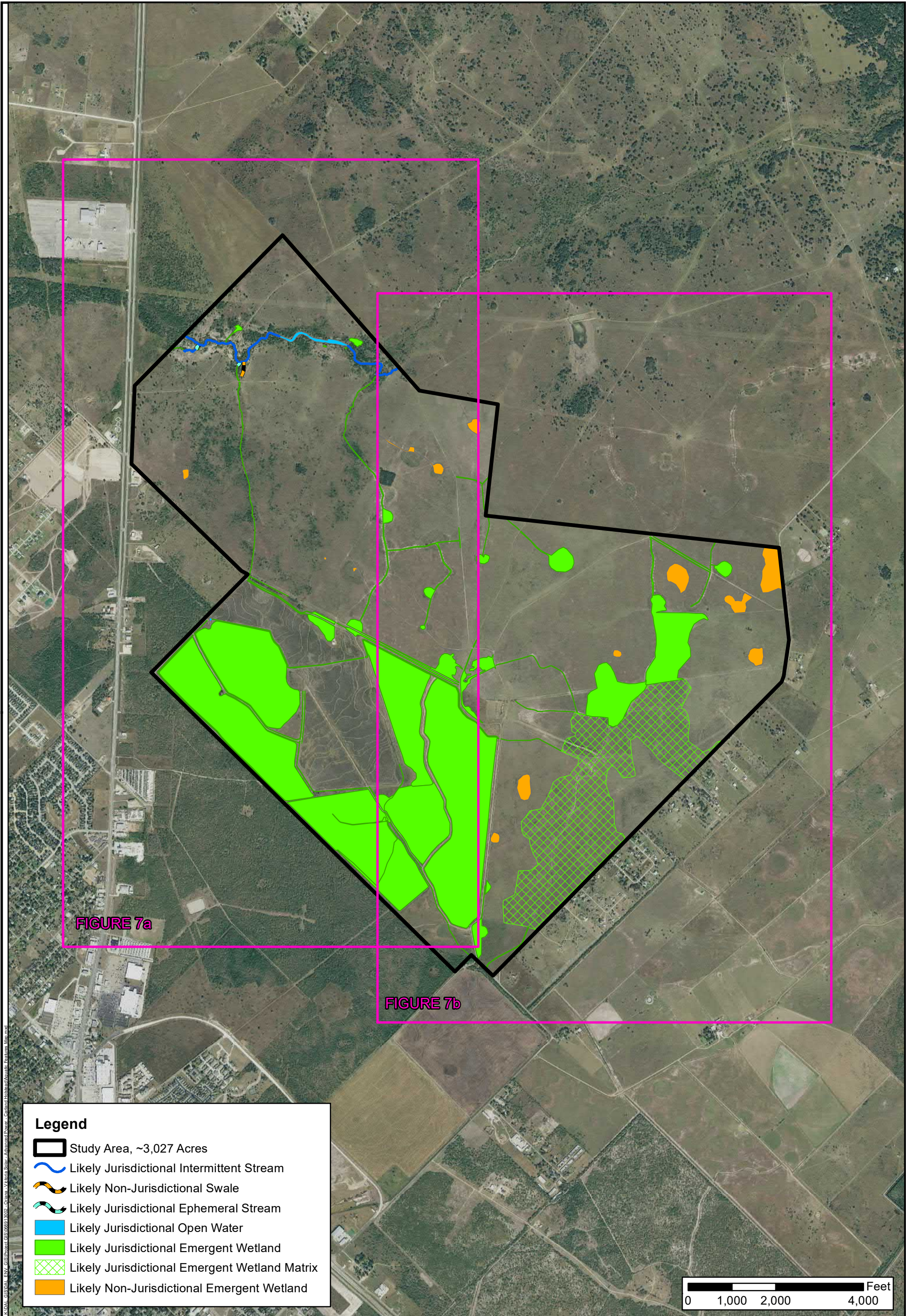


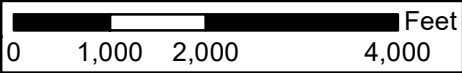
FIGURE 6c	DATE: 06/02/2021	RECENT AERIAL TNRIS, NAIP 2020	ORIANA SOLAR Victoria County, Texas		Kimley»Horn This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.
	DRAWN: MREA				
	CHECKED: CGH				
	KHA NO.: 068913002				



K:\2021\GIS\DATA\ENV\GIS\PROJECTS\068913002\ORIANA SOLAR\068913002_08272021\068913002_AQUATIC LOCATOR MAP.mxd

Legend

- Study Area, ~3,027 Acres
- Likely Jurisdictional Intermittent Stream
- Likely Non-Jurisdictional Swale
- Likely Jurisdictional Ephemeral Stream
- Likely Jurisdictional Open Water
- Likely Jurisdictional Emergent Wetland
- Likely Jurisdictional Emergent Wetland Matrix
- Likely Non-Jurisdictional Emergent Wetland



FIGURE

7

DATE:	08/27/2021
DRAWN:	MREA
CHECKED:	CGH
KHA NO.:	068913002

AQUATIC FEATURES LOCATOR
MAP

Source: TNRIS, NAIP 2020

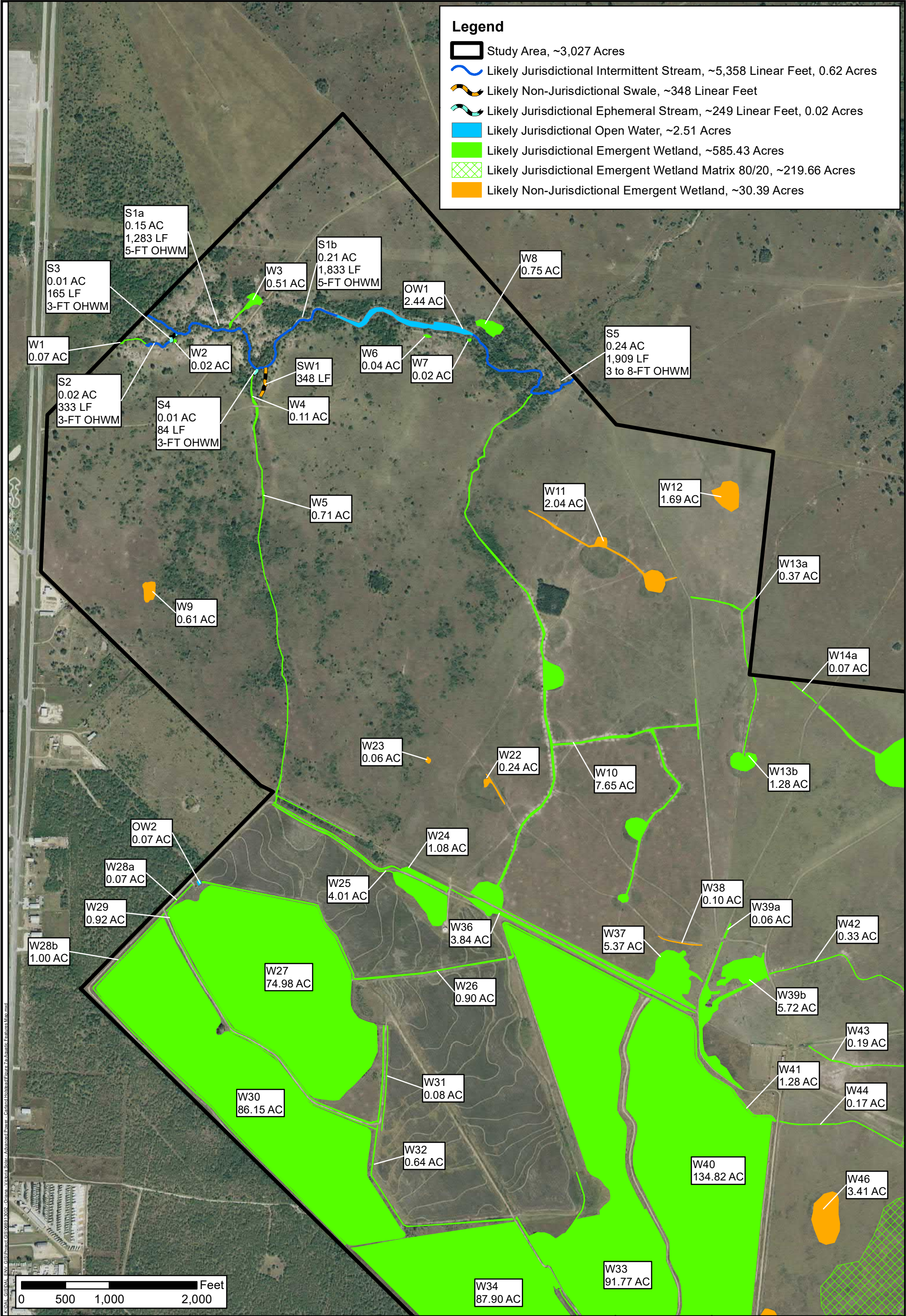
ORIANA SOLAR

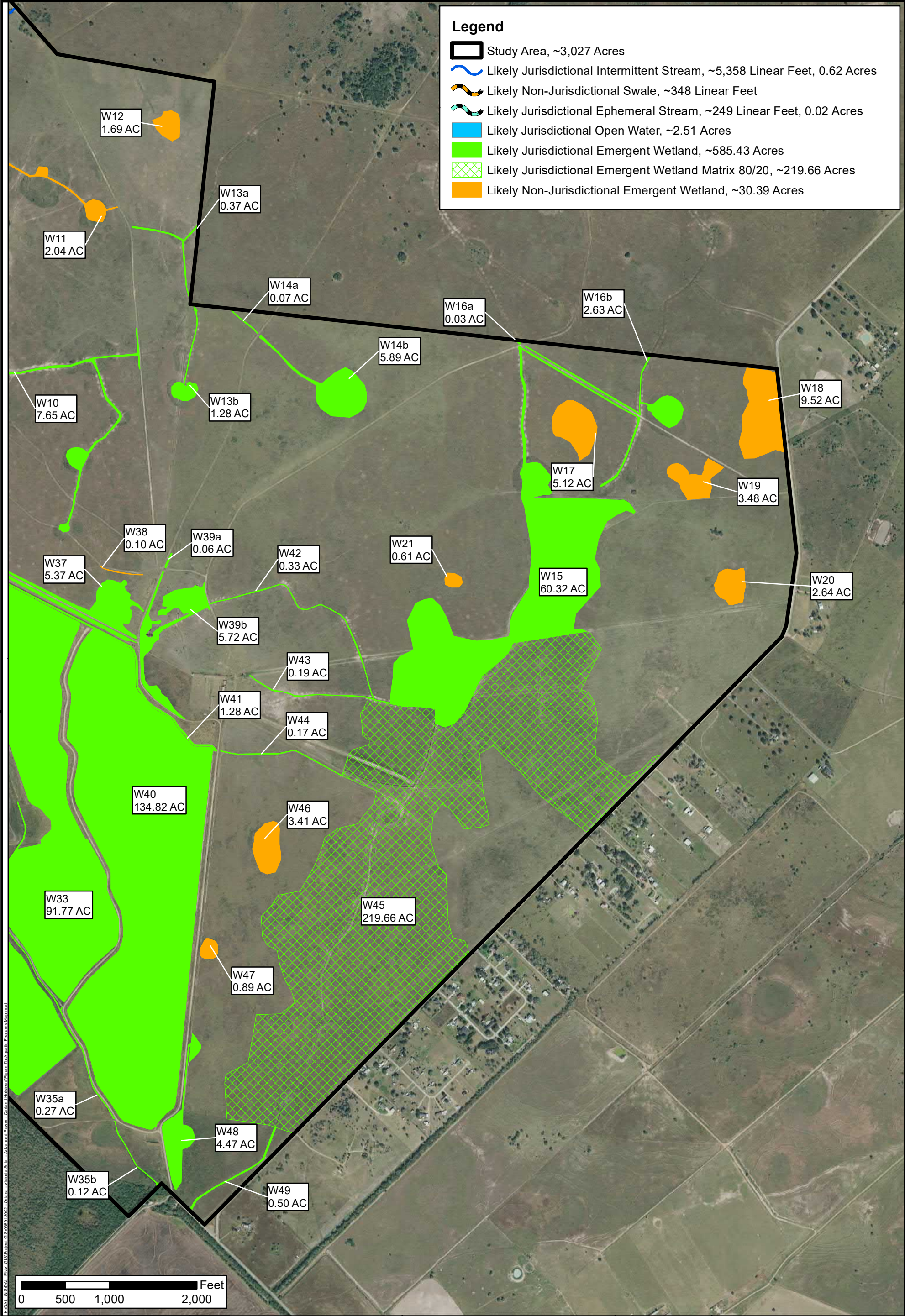
Victoria County, Texas



Kimley»Horn

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.





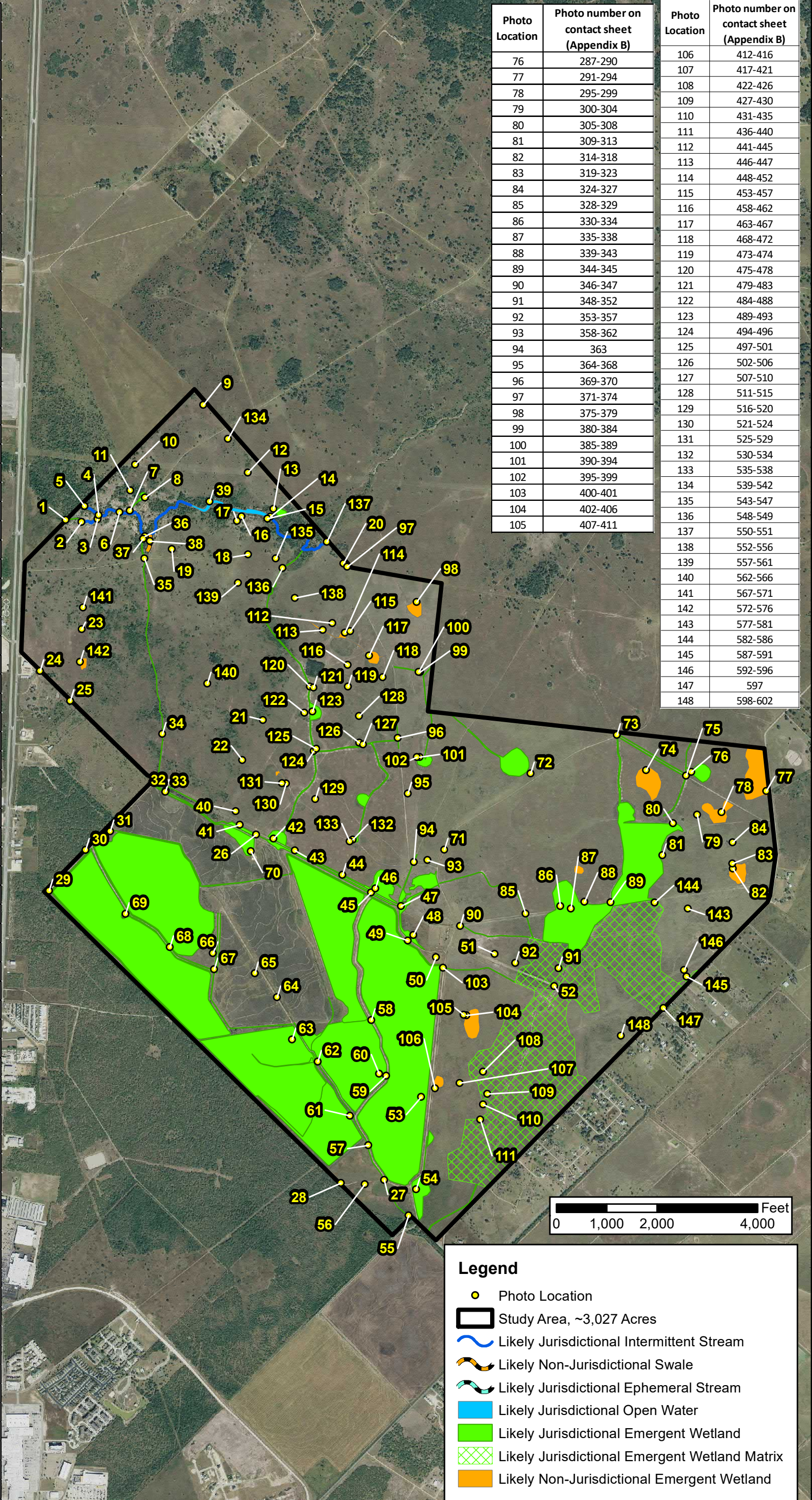
Appendix B

PHOTO LOCATION MAP AND SITE VISIT PHOTOGRAPHS

Photo Location	Photo number on contact sheet (Appendix B)
1	001-004
2	005-006
3	007-011
4	012-013
5	015-016
6	017-018
7	019-023
8	024-027
9	028-031
10	032-033
11	034-038
12	039-042
13	043-047
14	048-049
15	050-054
16	055-059
17	060-064
18	065-069
19	070-074
20	075-078
21	079-082
22	083-087
23	088-091
24	092-095
25	096-100
26	101-102
27	103-104
28	105-108
29	109-112
30	113-117
31	118
32	119-120
33	121-122
34	123-124
35	125-129
36	130-131
37	132-133
38	134-135
39	136-139
40	140-144
41	145-149
42	150-154
43	155-159
44	160-163
45	164-167
46	168-172
47	173-176
48	177-181
49	182-185
50	186-189
51	190-194
52	195-198
53	199-203
54	204-208
55	209-210
56	211-215
57	216-217
58	218-221
59	222-225
60	226-230
61	231-234
62	235-238
63	239-243
64	244-245
65	246-250
66	251-254
67	255-256
68	257-260
69	261-265
70	266-270
71	271-272
72	273-277
73	278-279
74	280-284
75	285-286

Photo Location	Photo number on contact sheet (Appendix B)
76	287-290
77	291-294
78	295-299
79	300-304
80	305-308
81	309-313
82	314-318
83	319-323
84	324-327
85	328-329
86	330-334
87	335-338
88	339-343
89	344-345
90	346-347
91	348-352
92	353-357
93	358-362
94	363
95	364-368
96	369-370
97	371-374
98	375-379
99	380-384
100	385-389
101	390-394
102	395-399
103	400-401
104	402-406
105	407-411

Photo Location	Photo number on contact sheet (Appendix B)
106	412-416
107	417-421
108	422-426
109	427-430
110	431-435
111	436-440
112	441-445
113	446-447
114	448-452
115	453-457
116	458-462
117	463-467
118	468-472
119	473-474
120	475-478
121	479-483
122	484-488
123	489-493
124	494-496
125	497-501
126	502-506
127	507-510
128	511-515
129	516-520
130	521-524
131	525-529
132	530-534
133	535-538
134	539-542
135	543-547
136	548-549
137	550-551
138	552-556
139	557-561
140	562-566
141	567-571
142	572-576
143	577-581
144	582-586
145	587-591
146	592-596
147	597
148	598-602



FIGURE

1

DATE:	08/27/2021
DRAWN:	KRK
CHECKED:	CGH
KHA NO.:	068913002

PHOTO LOCATION MAP

Source: TNRIS, NAIP 2020

ORIANA SOLAR

Victoria County, Texas



Kimley»Horn

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.



001



002



003



004



005



006

Photos taken on 08/02/2021



007



008



009



010



011



012

Photos taken on 08/02/2021



013



014



015



016



017



018

Photos taken on 08/02/2021



019



020



021



022



023



024

Photos taken on 08/02/2021



025



026



027



028



029



030

Photos taken on 08/02/2021



031



032



033



034



035



036

Photos taken on 08/02/2021



037



038



039



040



041



042

Photos taken on 08/02/2021



043



044



045



046



047



048

Photos taken on 08/02/2021



049



050



051



052



053



054

Photos taken on 08/02/2021



055



056



057



058



059



060

Photos taken on 08/03/2021



061



062



063



064



065



066

Photos taken on 08/03/2021



067



068



069



070



071



072



073



074



075



076



077



078



079



080



081



082



083



084

Photos taken on 08/03/2021



085



086



087



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