Geotechnical Desktop Review Report

Larry Kiker Preserve
Fort Myers, Lee County, Florida
February 8, 2022
Terracon Project No. HC215047

Prepared for:
Kimley-Horn and Associates, Inc.
Fort Myers, FL

Prepared by:
Terracon Consultants, Inc.
Sarasota, Florida

February 8, 2022

Kimley-Horn and Associates, Inc.
1412 Jackson Street, Suite 2
Fort Myers, FL 33901

Attn: Ms. Kellie Clark, P.E.
P: (239) 271-2641
E: Kellie.Clark@kimley-horn.com

Re: Geotechnical Desktop Review Report
Larry Kiker Preserve
Fort Myers, Lee County, Florida
Terracon Project No. HC215047

Dear Ms. Clark:

We have completed the Geotechnical Desktop Review services for the above referenced project. This study was performed in general accordance with the Kimley-Horn Individual Project Order Number 01 for Project Number 148220024 authorized on December 7, 2021. This report presents the findings of the desktop review and provides a summary of the geotechnical information that was obtained.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,
Terracon Consultants, Inc.

JAMES M. JACKSON LICENSE No 77733 STATE OF FLORIDA PROFESSIONAL ENGINEER

James M. Jackson, P.E.
Department Manager 2/8/2022
FL License No. 77733

2/8/2022
Douglas S. Dunkelberger, P.E.
Principal
FL License No. 33317

This item has been digitally signed and sealed by James M. Jackson, P.E. on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

REPORT TOPICS

Note: This report was originally delivered in a web-based format. **Orange Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the ***GeoReport*** logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

ATTACHMENTS

Note: Refer to each individual Attachment for a listing of contents.

Geotechnical Desktop Review Report

Larry Kiker Preserve

Fort Myers, Lee County, Florida

Terracon Project No. HC215047

February 8, 2022

INTRODUCTION

This report presents the results of our geotechnical desktop review performed for the proposed berm and recreational area to be located at the Larry Kiker Preserve in Fort Myers, Lee County, Florida. The purpose of these services is to provide expected subsurface information to support early planning efforts for the project.

SITE CONDITIONS

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

Item	Description
Parcel Information	The site is generally located east of I-75, south of Corkscrew Road, and north of Bonita Beach Road SE in Fort Myers, Lee County, Florida. See **Site Location**
Existing Improvements	None.
Current Ground Cover	Based on review of aerial photographs, the site appears to be covered with dense brush-type vegetation and trees.
Existing Topography	Review of LIDAR data from the South Florida Water Management District (SFWMD) DBHydro mapping database indicates the site is relatively flat with ground surface elevations ranging from about +13 to +16 feet-NAVD.

PROJECT DESCRIPTION

Our current understanding of the project conditions is as follows:

Item	Description
Project Description	The project includes the design of approximately 19 miles of earthen berm along with recreational amenities at the Larry Kiker Preserve. The recreational amenities will include paved multi-use trails, unpaved walking trails, paved parking areas, observation platforms, and fishing platforms.
Building Construction	We expect the observation and fishing platforms to be designed using wood frame with driven timber pilings.

Item	Description
Maximum Loads	We have assumed the platform loads will be less than 25 kips to each column.
Grading/Slopes	We have assumed site grading fill will be minimal with the exception of the berms which will be 4 to 5 feet in height.
Pavements	We have assumed only flexible (asphalt) pavement sections will be considered. We anticipate vehicle loads throughout the site will be primarily light passenger cars and maintenance trucks with the occasional heavy delivery, garbage truck, or loaded dump trucks for stormwater maintenance activities amounting to no more than 100,000 Equivalent 18-kip Single-Axle Loads (ESALs) during a 20-year design period.

DESKTOP REVIEW

Historical Geotechnical Report Review

Historical geotechnical reports were not provided to Terracon for review. However, based on review of boring logs for four geotechnical projects, which included 172 boring drilled to depths ranging from about 6 to 30 feet bgs, previously completed by Terracon in the vicinity of the site (See **Site Location**), we expect subsurface soil conditions to generally consist of poorly-graded, fine sand with varying amounts of silt from the surface to a depth of about 10 to 15 feet below the ground surface (bgs) followed by formational limestone. The limestone in the vicinity of site is generally variable in terms of cementation and could consist of hard caprock, very loose to dense silty sand with limestone fragments, and soft calcareous silt. The caprock layer is generally thin (1 to 2 feet thick) and found near the transition from sand to limestone.

Historical Aerial Review

Aerial photographs from the Agriculture Stabilization & Conservations Services (ASCS), Army Mapping Service (AMS), Florida Department of Transportation (FDOT), United States Geological Survey (USGS), and Google Earth were reviewed. A listing of the aerial photographs that were reviewed is provided below:

- ASCS: 1944, 1958
- AMS: 1950
- FDOT: 1968, 1990
- USGS: 1971, 1978
- Google Earth: 1995, 1999, 2004 through 2010, 2012, 2013, 2014, 2016, 2017, 2019, 2020, 2021

The aerial photographs depict the project site and surrounding area as undeveloped land from 1944 to the present day. However, a series of perpendicular ditches located at the east end of the proposed berm appear to have been filled between 2016 and 2017. Portions of the 2016 and

2017 aerials are included on the following page. The red lines on the aerial depict potential berm alignments.

2016 Aerial (NTS)

2017 Aerial (NTS)

USDA – NRCS Soil Survey

Review of the web soil survey, which is hosted by the United States Department of Agriculture (UDSA) Natural Resources Conservation Services (NRCS), indicates the site is mapped with 38 Soil Units. The following table provides a summary of the soil map units for the site. The table has been limited to only include Soil Units covering at least 5% of the mapped area.

SUMMARY OF SOILS IN RECREATION AREA VICINITY – FROM USDA WEB SOIL SURVEY

Map Unit No. and Name	Percentage of Site Area		Stratification		Estimated Seasonal High Groundwater Level (feet-bgs)
	Rec. Area	Berm	Depth Ranges (inches)	USCS	
6 – Brynwood fine sand	10	0	0 to 16 16+	SP, SP-SM Limestone	0 to 1
26 – Pineda, wet, fine sand	7	2	0 to 36 36 to 54 54 to 80	SP, SP-SM SC, SM-SC, SM SP-SM, SM	0 to 1
27 – Pompano fine sand, frequently ponded	11	21	0 to 80	SP, SP-SM	0 to 1

SUMMARY OF SOILS IN RECREATION AREA VICINITY – FROM USDA WEB SOIL SURVEY					
Map Unit No. and Name	Percentage of Site Area		Stratification		Estimated Seasonal High Groundwater Level (feet-bgs)
	Rec. Area	Berm	Depth Ranges (inches)	USCS	
28, Immokalee sand	0	9	0 to 36 36 to 55 55 to 80	SP, SP-SM SP-SM, SM SP, SP-SM	0 to 1
33 – Oldsmar sand	0	11	0 to 42 42 to 47 47 to 58 58 to 80	SP, SP-SM SM, SP-SM SM-SC, SC SM, SP-SM	0 to 1
34 – Malabar fine sand	2	6	0 to 42 42 to 59 59 to 80	SP, SP-SM SC, SM-SC SP-SM, SM	0 to 1
39 – Isles fine sand, frequently ponded	5	9	0 to 21 21 to 47 47+	SP, SP-SM SM-SC, SC, SM Limestone	0
42 – Wabasso sand, limestone substratum	10	1	0 to 37 37 to 51 51+	SP-SM, SM SM, SM-SC, SC Limestone	0 to 1
49 – Felda fine sand, frequently ponded	5	5	0 to 35 35 to 52 52 to 80	SP, SP-SM SM, SM-SC, SC SP, SP-SM	0
73 – Pineda fine sand, frequently ponded	26	1	0 to 30 30 to 55 55 to 80	SP, SP-SM SM, SC, SM-SC SP-SM, SM	0
74 – Cypress Lake fine sand, slough	11	8	0 to 25 25 to 30 30+	SP, SP-SM SM-SC, SC Limestone	0 to 1.5
77 – Pineda fine sand, limestone substratum	0	9	0 to 27 27 to 52 52+	SP, SP-SM SM, SM-SC, SC Limestone	0 to 1

In general, the soil survey indicates the near-surface soils are sands followed by limestone at variable depths. The limestone is described by the soil survey as variable in composition ranging

from hard to fractured and containing solution holes that could be filled with sandy or loamy (i.e. silty or clayey) material. Groundwater is generally shallow, and, in some cases, the seasonal high groundwater is anticipated to be at or above the ground surface. The remaining soil units mapped for lesser areas (units that cover less than 5% of the mapped area) were generally consistent with the above description. Soil units containing significant organic soil (i.e. muck) thicknesses were not mapped for either the recreational area or proposed berm alignment. However, we would expect soil units that are frequently ponded to contain some surficial (upper 12 inches +/-) soils with organic matter and sediment.

It should be noted that the NRCS Soil Survey is not intended as a substitute for site-specific geotechnical exploration; rather it is a useful tool in planning a project scope in that it provides information relative to the soil types likely to be encountered. Boundaries between adjacent soil types on the NRSC Soil Survey maps are approximate. The Web Soil Survey Maps for the project areas are included in the **Supporting Information** section along with an estimated Depth to Bedrock map.

Site Geology

Florida is the emergent part of a large platform, called the Floridian Plateau, which projects southward from the continental mass and separates the deep water of the Atlantic Ocean from that of the Gulf of Mexico.

'The geology of the site, based on review of Bulletin No. 59, *The Lithostratigraphy of the Hawthorn Group (Miocene) of Florida* (1988) is generally characterized as undifferentiated sands from the surface to about 0 feet-NAVD. The Peace River Formation of the Hawthorn Group is found below the upper sands and generally consists of shallow limestone (caprock) followed by interbedded sands and clays. Next is the Arcadia Formation at an elevation of about -200 feet-NAVD which consists of limestone/dolostone hard clays and silts. The Arcadia Formation extends to an elevation of at least -600 feet-NAVD. We would expect the transition from the Surficial to Intermediate Aquifer to generally occur near the interface of the undifferentiated sands and the Peace River Formation.

Publicly Available Well Data

The United States Geological Survey (USGS) website was reviewed for nearby well data for the surficial aquifer. We reviewed information for Well L-2195 located at approximately 26.3325°N, -81.7228°W which is about ½ miles to the south of the site.

Well L-2195 is installed to a depth of 15 feet in the Surficial Aquifer system. The daily data for the past year shows a maximum groundwater level around October at an elevation of about +13 feet-NGVD (+11.8 feet-NAVD) with minimum levels around June at +8 feet-NGVD (+6.8 feet-NAVD). Based on the proximity of this well to the site and its location within the Surficial Aquifer

system, we believe this well would be generally representative, on a preliminary basis, of seasonal groundwater fluctuations that could be encountered at the site.

A printout of the groundwater levels for the past year for the well is provided in the **Supporting Information** section.

Lee County Seasonal High Groundwater Level (SHGWL) Map

Review of the Lee County Wet Season High Water Table Map for 2010 to 2019 depicts the estimated SHGWL to range from about +12 to +16 feet-NAVD. Based on the ground surface elevations from the LIDAR data, being in the range of +13 to +16 feet – NAVD, and the Soil Survey data previously discussed, we expect the SHGWL to be shallow (1-foot bgs or less).

SUMMARY AND NEXT STEPS

Based on review of the noted information, the proposed development consisting of recreational trails, wood frame fishing and observation platforms, and earthen berms appears feasible from a geotechnical standpoint. Site specific information consisting of field exploration and laboratory testing should be completed. Additionally, based on the potential for uncontrolled fill in the former ditches at the east end of the project, we recommend test pits be incorporated into the exploration plan if the berm is to be located over those areas. A site visit will be completed prior to scope development to assess site access and existing conditions.

GENERAL COMMENTS

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our desktop review. Natural variations will occur between the estimated subsurface information provided or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer to provide supplemental exploration and analysis for the design phase of the project.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is

solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for preliminary purposes and not to be used for design or estimate excavation cost. Any use of our report in that regard is done at the sole risk of the designer or excavating cost estimator as there will likely be variations on the site that are not apparent in the data that could significantly impact costs. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

ATTACHMENTS

SITE LOCATION AND EXPLORATION PLANS

Contents:

SITE LOCATION

Larry Kiker Preserve ■ Fort Myers, Lee County, Florida
February 8, 2022 ■ Terracon Project No. HC215047

Terracon GeoReport

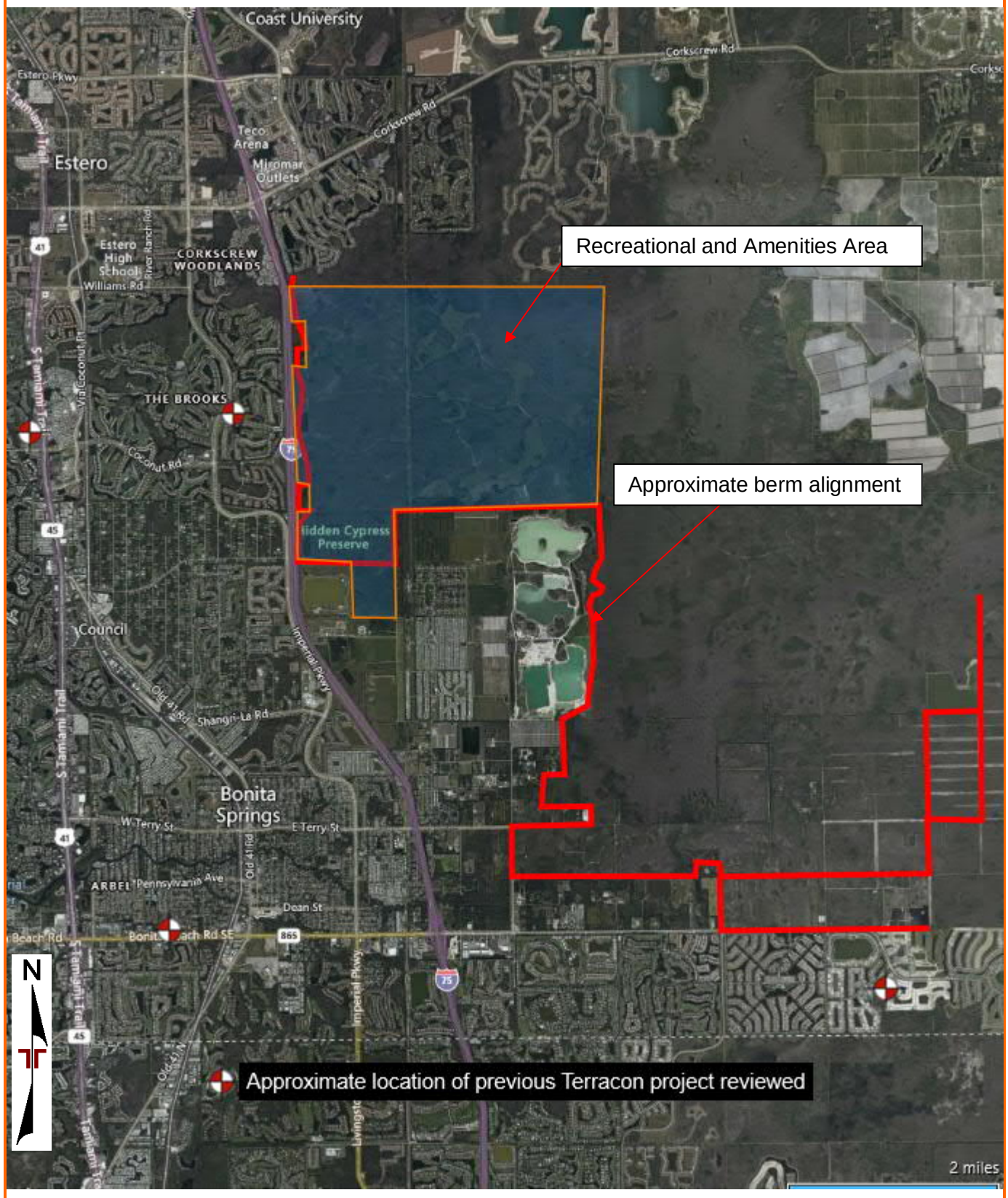
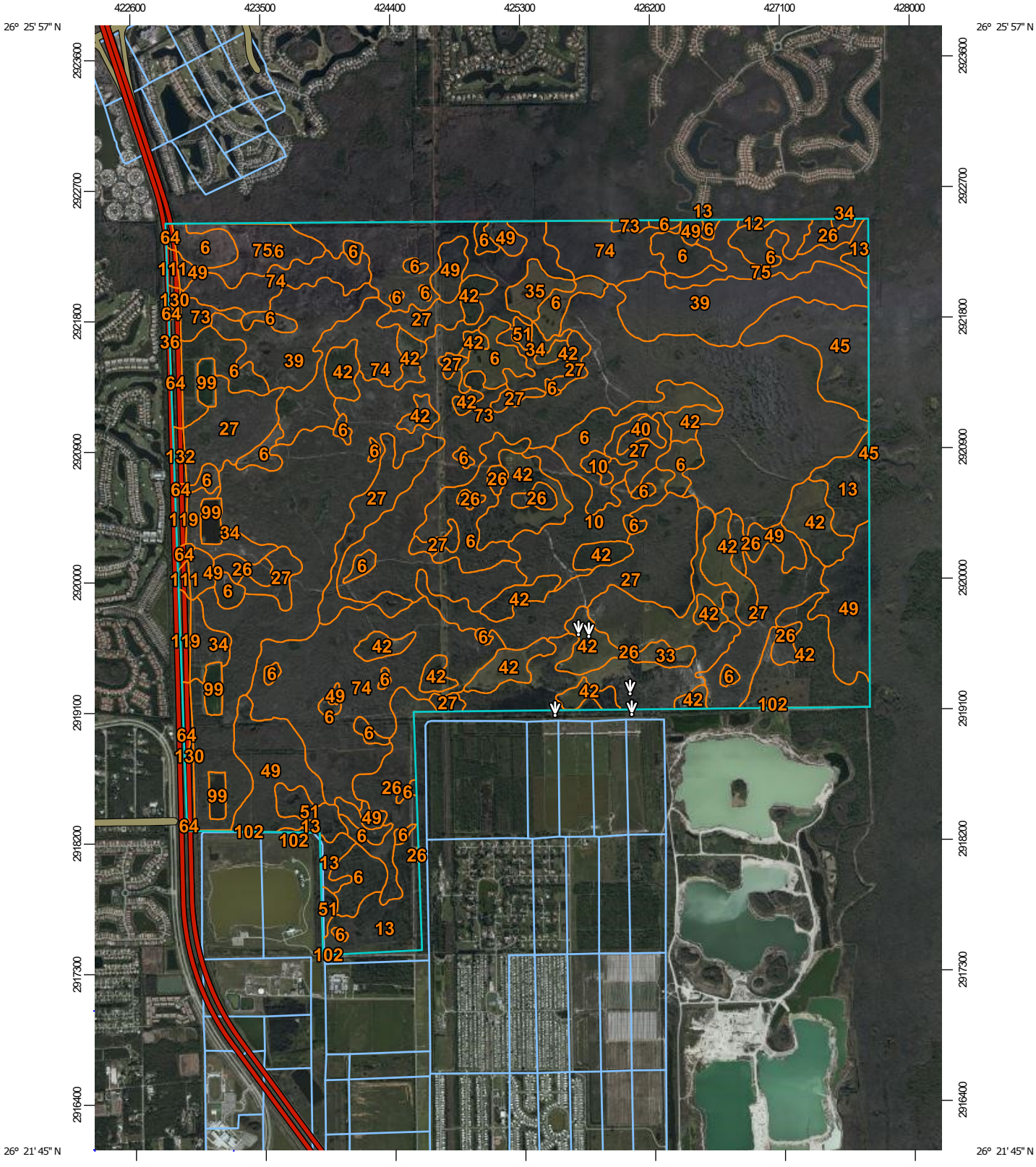


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

SUPPORTING INFORMATION

Contents:



Map Scale: 1:37,900 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 500 1000 2000 3000

Feet
0 1500 3000 6000 9000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lee County, Florida
Survey Area Data: Version 19, Aug 25, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 25, 2019—Mar 20, 2020

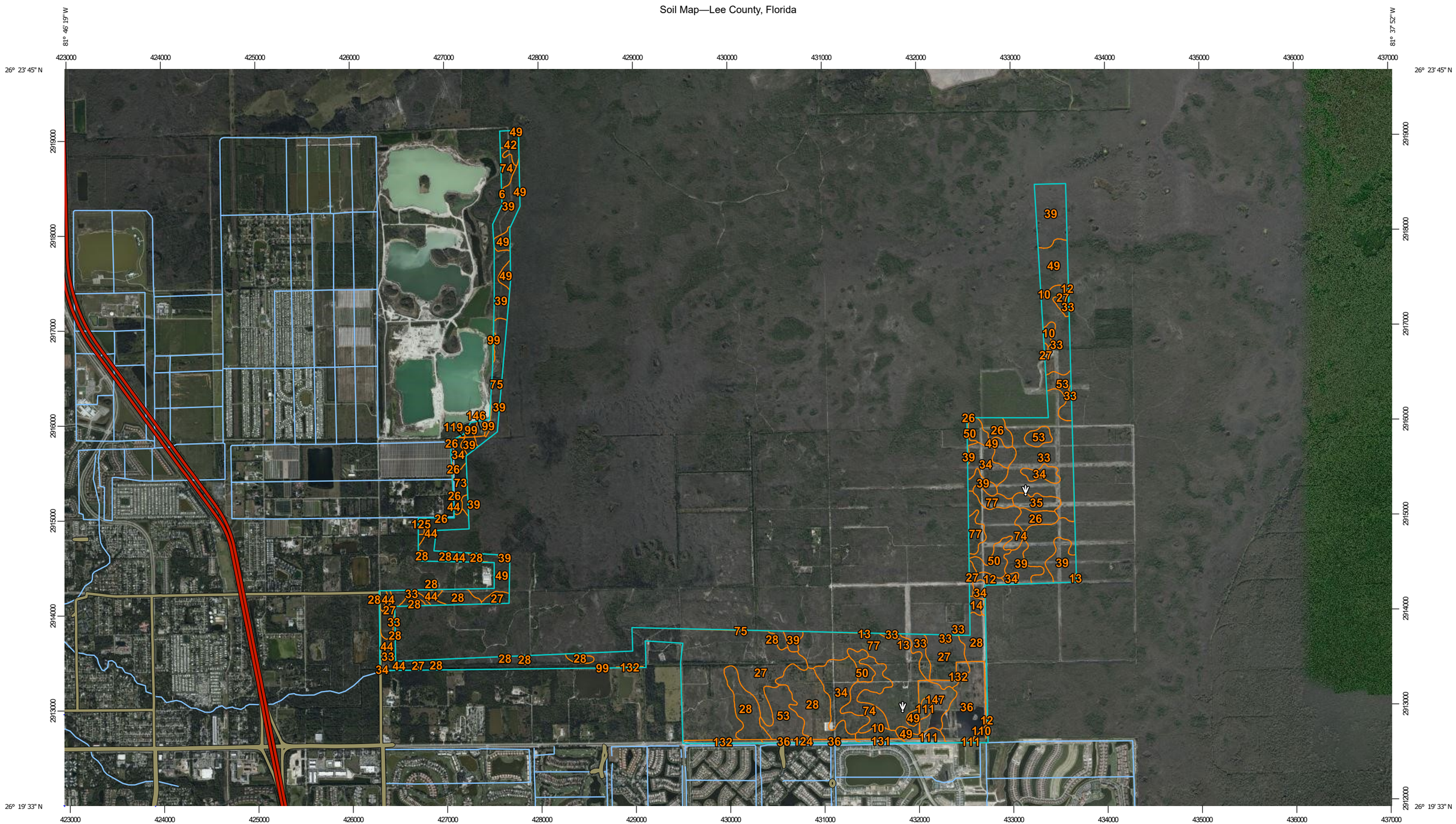
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Brynwood fine sand, wet, 0 to 2 percent slopes	460.6	10.2%
10	Pompano fine sand, 0 to 2 percent slopes	100.9	2.2%
12	Felda fine sand, 0 to 2 percent slopes	2.8	0.1%
13	Cypress Lake fine sand, 0 to 2 percent slopes	134.8	3.0%
26	Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	330.0	7.3%
27	Pompano fine sand, frequently ponded, 0 to 1 percent slopes	480.1	10.7%
33	Oldsmar sand, 0 to 2 percent slopes	13.1	0.3%
34	Malabar fine sand, 0 to 2 percent slopes	77.8	1.7%
35	Wabasso sand, 0 to 2 percent slopes	22.9	0.5%
36	Immokalee sand-Urban land complex, 0 to 2 percent slopes	0.0	0.0%
39	Isles fine sand, frequently ponded, 0 to 1 percent slopes	229.8	5.1%
40	Anclote sand, frequently ponded, 0 to 1 percent slopes	10.4	0.2%
42	Wabasso sand, limestone substratum, 0 to 2 percent slopes	430.1	9.6%
45	Copeland fine sandy loam, frequently ponded, 0 to 1 percent slopes	90.7	2.0%
49	Felda fine sand, frequently ponded, 0 to 1 percent slopes	230.7	5.1%
51	Floridana sand, frequently ponded, 0 to 2 percent slopes	34.4	0.8%
64	Brynwood fine sand, wet-Urban land complex, 0 to 2 percent slopes	20.8	0.5%
73	Pineda fine sand, frequently ponded, 0 to 1 percent slopes	1,149.1	25.6%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
74	Cypress Lake fine sand, slough, 0 to 1 percent slopes	477.2	10.6%
75	Brynwood fine sand, slough, 0 to 1 percent slopes	103.8	2.3%
99	Water	39.7	0.9%
102	Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes	3.3	0.1%
111	Felda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	8.7	0.2%
119	Malabar fine sand-Urban land complex, 0 to 2 percent slopes	17.0	0.4%
130	Pineda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	20.5	0.5%
132	Pompano fine sand, ponded-Urban land complex, 0 to 1 percent slopes	7.5	0.2%
Totals for Area of Interest		**4,496.9**	**100.0%**

Soil Map—Lee County, Florida



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Survey Area Data: Version 19, Aug 25, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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Map Unit Legend

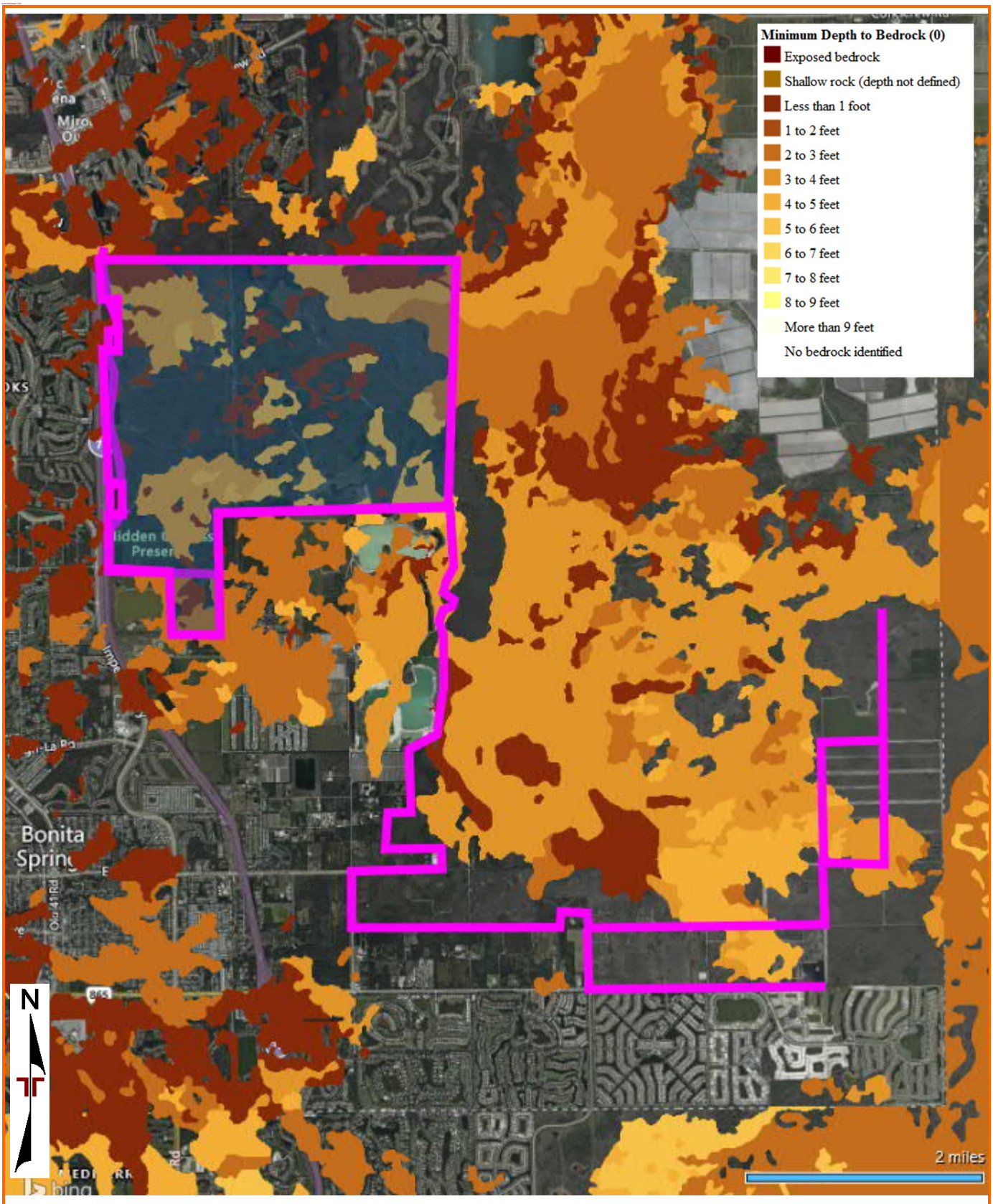
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Brynwood fine sand, wet, 0 to 2 percent slopes	0.1	0.0%
10	Pompano fine sand, 0 to 2 percent slopes	17.0	0.8%
12	Felda fine sand, 0 to 2 percent slopes	9.1	0.4%
13	Cypress Lake fine sand, 0 to 2 percent slopes	4.8	0.2%
14	Valkaria fine sand, 0 to 2 percent slopes	5.9	0.3%
26	Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes	34.3	1.7%
27	Pompano fine sand, frequently ponded, 0 to 1 percent slopes	426.6	20.8%
28	Immokalee sand, 0 to 2 percent slopes	186.7	9.1%
33	Oldsmar sand, 0 to 2 percent slopes	220.4	10.7%
34	Malabar fine sand, 0 to 2 percent slopes	119.9	5.8%
35	Wabasso sand, 0 to 2 percent slopes	18.7	0.9%
36	Immokalee sand-Urban land complex, 0 to 2 percent slopes	78.2	3.8%
39	Isles fine sand, frequently ponded, 0 to 1 percent slopes	179.1	8.7%
42	Wabasso sand, limestone substratum, 0 to 2 percent slopes	12.9	0.6%
44	Malabar fine sand, frequently ponded, 0 to 1 percent slopes	52.6	2.6%
49	Felda fine sand, frequently ponded, 0 to 1 percent slopes	106.1	5.2%
50	Oldsmar fine sand, limestone substratum, 0 to 2 percent slopes	35.7	1.7%
53	Myakka fine sand, frequently ponded, 0 to 1 percent slopes	73.7	3.6%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
73	Pineda fine sand, frequently ponded, 0 to 1 percent slopes	10.7	0.5%
74	Cypress Lake fine sand, slough, 0 to 1 percent slopes	157.0	7.6%
75	Brynwood fine sand, slough, 0 to 1 percent slopes	37.7	1.8%
77	Pineda fine sand, limestone substratum, 0 to 2 percent slopes	177.1	8.6%
99	Water	7.2	0.3%
110	Felda fine sand-Urban land complex, 0 to 2 percent slopes	4.0	0.2%
111	Felda fine sand, ponded-Urban land complex, 0 to 1 percent slopes	16.1	0.8%
119	Malabar fine sand-Urban land complex, 0 to 2 percent slopes	0.4	0.0%
124	Myakka fine sand, ponded-Urban land complex, 0 to 1 percent slopes	1.6	0.1%
125	Oldsmar sand-Urban land, 0 to 2 percent slopes	1.3	0.1%
131	Pompano fine sand-Urban land compex, 0 to 2 percent slopes	5.0	0.2%
132	Pompano fine sand, ponded-Urban land complex, 0 to 1 percent slopes	17.4	0.8%
146	Brynwood fine sand, slough-Urban land complex, 0 to 1 percent slopes	4.1	0.2%
147	Pineda fine sand, limestone substratum-Urban land complex, 0 to 2 percent slopes	32.2	1.6%
Totals for Area of Interest		**2,053.8**	**100.0%**

APPROXIMATE DEPTH TO BEDROCK

Larry Kiker Preserve ■ Fort Myers, Lee County, Florida
February 8, 2022 ■ Terracon Project No. HC215047

Terracon GeoReport



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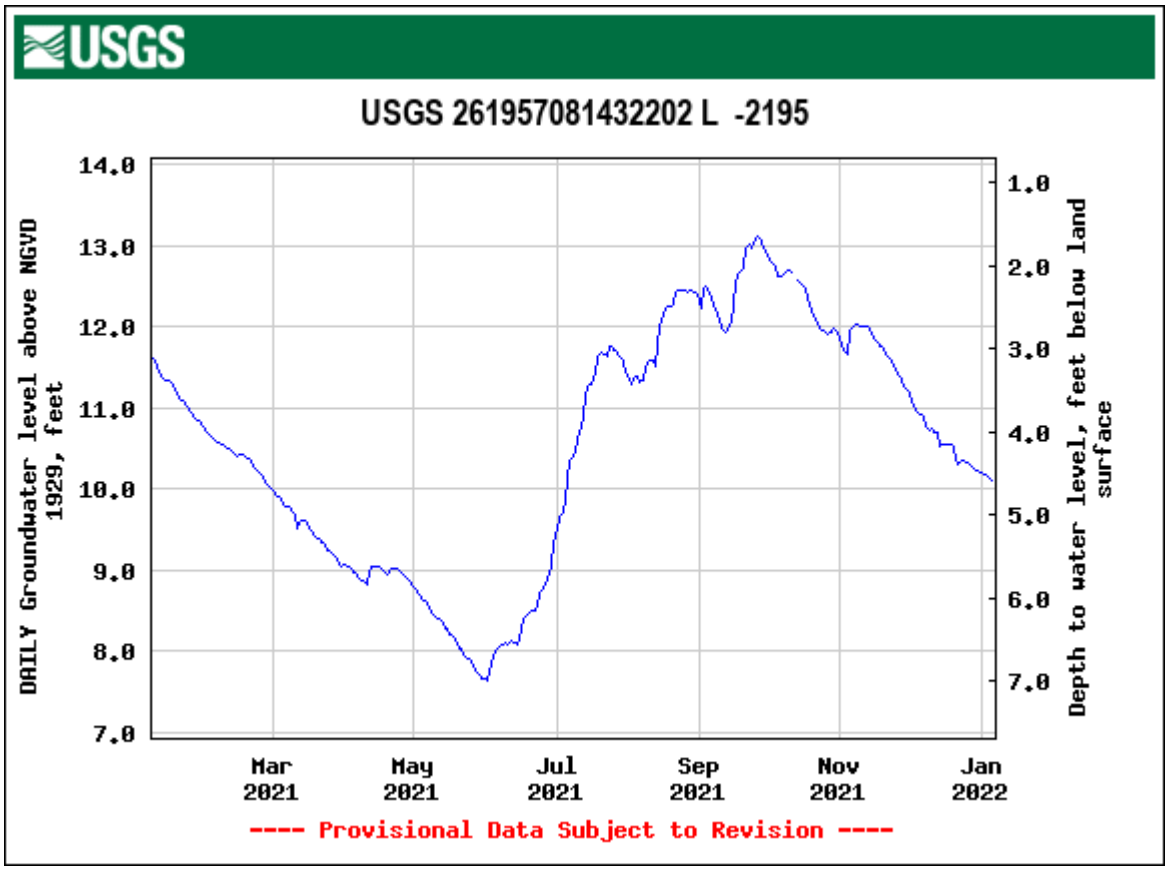
MAP PROVIDED BY MICROSOFT BING MAPS


USGS
USGS 261957081432202 L -2195
DAILY Groundwater level above NGVD 1929, feet
Depth to water level, feet below land surface
14.0
13.0
12.0
11.0
10.0
9.0
8.0
7.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
Mar 2021
May 2021
Jul 2021
Sep 2021
Nov 2021
Jan 2022
---- Provisional Data Subject to Revision ----